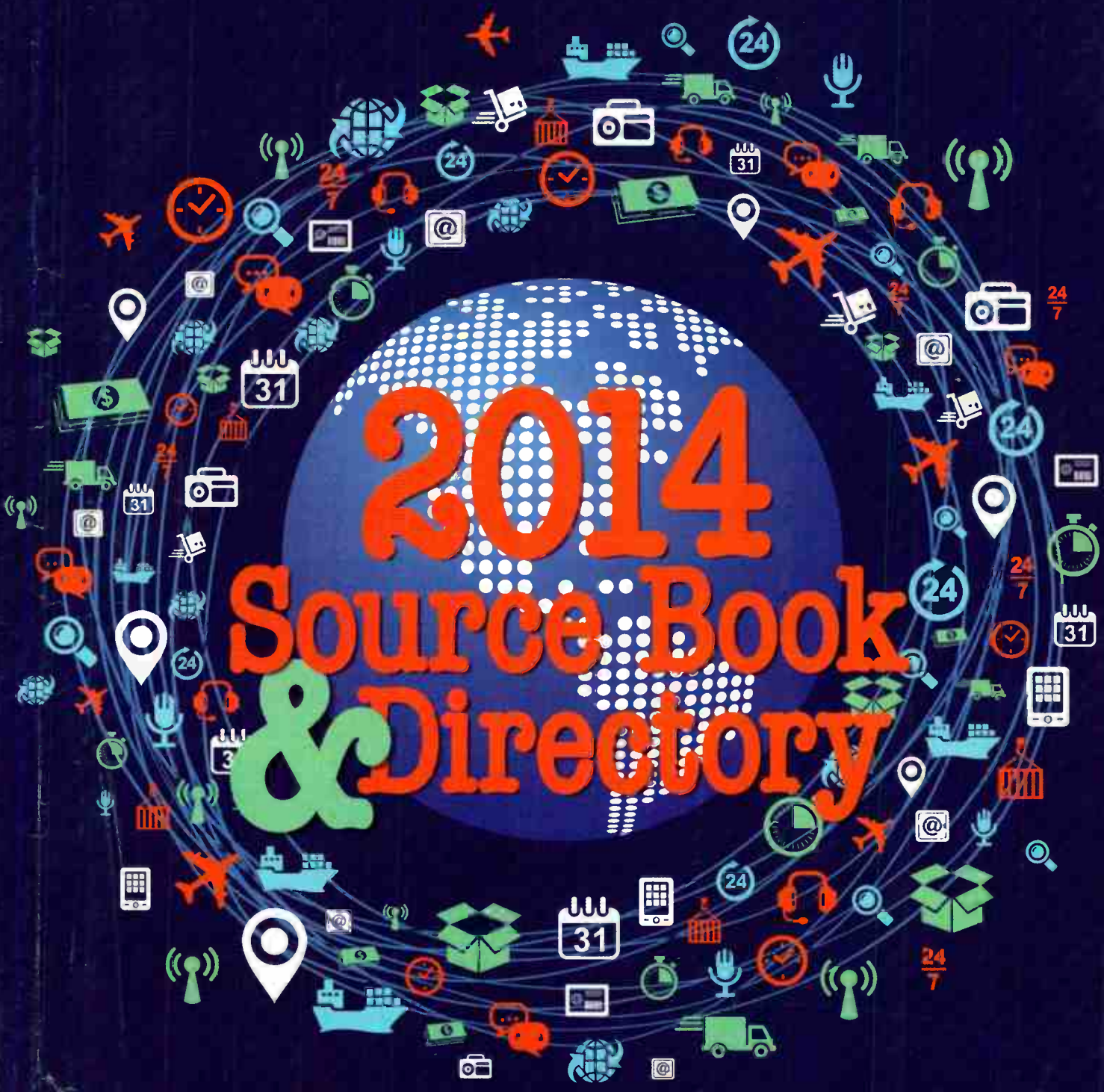
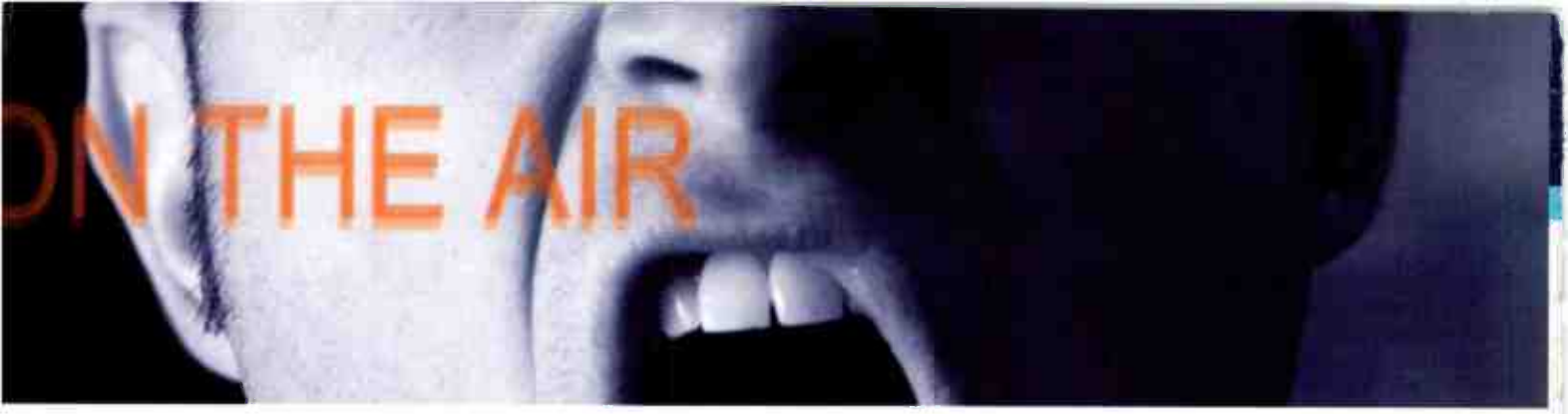
RADIO WORLD



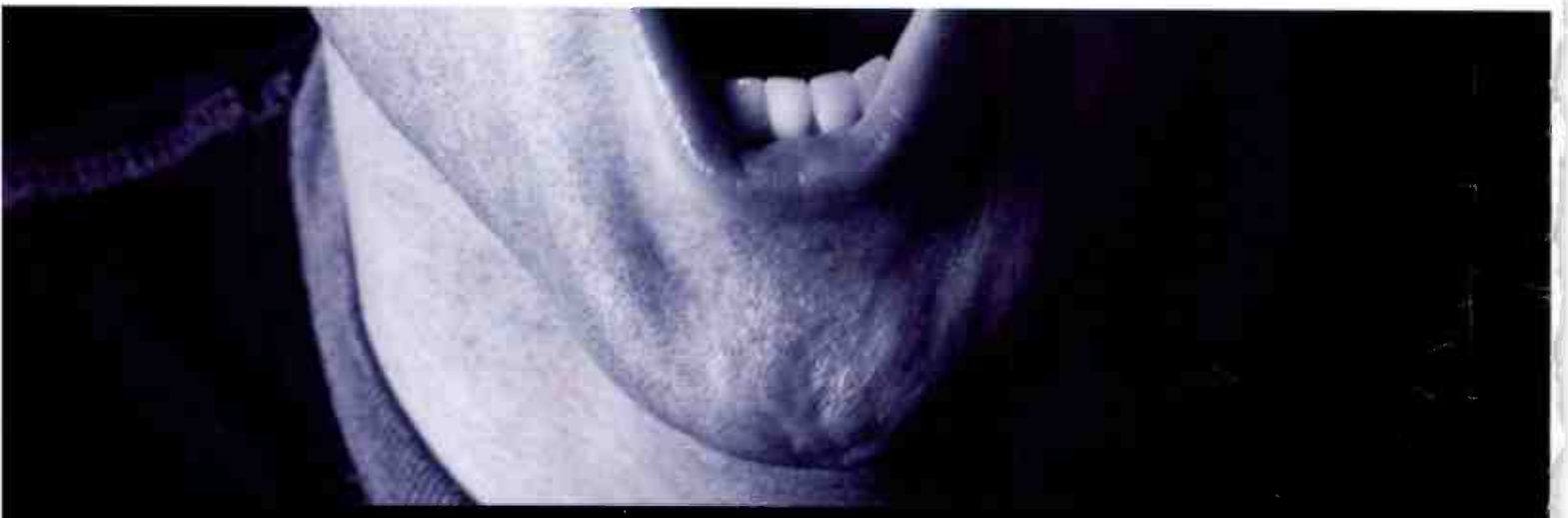
2014 Source Book & Directory

Annual Reference Guide and Supplement to Radio World

World Radio History



SANITIZED FOR YOUR PROTECTION



SOME WORDS SHOULD BE OBSCENE AND NOT HEARD

Eventide Broadcast Delays are designed to keep profanity off your air, and angry listeners, embarrassed advertisers, and the FCC off your back. We invented the obscenity delay and have a solution for stations large and small that provides up to 80 seconds of the highest quality revenue and license-protecting delay.

Our new HD compatible BD600, 24-bit delay, comes standard with AES/EBU, and provides up to 80 seconds of memory — twice as much as other delays. There are fully adjustable Delay and Dump functions, and a Sneeze function which "edits" audio entering the delay, allowing the host to sneeze, cough, or make a short comment without being heard on air.

The BD600 offers two different methods of delay buildup and reduction: Eventide's catch-up and catch-down system, and an exclusive fast-entry-and-exit feature which allows starting a broadcast with the delay already built up to a safe amount and ending it with a rapid reduction of delay.

For HD, the BD600 offers MicroPrecision Delay™ mode which allows up to 10 seconds of delay to be adjusted in real time in 100 nanosecond increments. This is useful for synchronizing analog and digital signals while on-air, without audible artifacts to maintain a seamless user experience.

Whatever your size, whatever your format, you can't expect to protect the integrity of your air and the foundation of your business without an Eventide Broadcast Delay in your rack.

Eventide®

HD COMPATIBLE

One Alsan Way, Little Ferry, NJ 07643 tel.201.641.1200 www.eventide.com

Eventide is a registered trademark and MicroPrecision Delay is a trademark of Eventide Inc. ©2005 Eventide Inc.

World Radio History

RADIOWORLD

"CONTACT!"

In our constant efforts to serve you in new and exciting ways, Radio World has had notable success with offerings such as our popular eBook series.

But I am proud too of the ongoing popularity of our recurring offerings. An example is the annual Source Book & Directory that you hold in your hands or are reading in digital edition form.

A few folks express surprise to me that directories are still serving readers in this age of instant access to online information. But I caution radio people all the time not to fall into the easy trap of assuming that established media — of any type — no longer serve their intended purpose.

Just as radio is evolving itself in new ways — defying critics who have been proclaiming its death for decades — and just as print itself is not dead — but rather part of an evolving multiplatform marketing strategy used by the world's most successful businesses — so, too, directories serve their purpose and their audience.

So this book is about contacts. We invited every relevant company known to us to provide contact info and brief descriptions of what they do that might be of help to you in your job or career. Find them in the Vendor & Product Directory section starting on page 24.

Companies indicated the type of gear or services they can provide; they are listed by category in the Supplier Cross Index on page 14.

A vibrant radio supplier marketplace helps all of us; a vibrant trade publication does the same, whether we share information with you digitally, in print or at an event. I'm grateful to companies who support this Source Book with their advertising; please patronize them. Their presence demonstrates an ongoing commitment to serving you, the radio/audio media professional.

My thanks also to all suppliers who took time to respond (some after a little nudging!), and to those who accepted the learning curve with our new data system, which we believe will save time in the long run, allowing suppliers to update their listings more easily.

Suppliers, if we missed you or you didn't reply to our invitation, email me at *radioworld@nbmedia.com* for next year.

Paul McLane
Editor in Chief

4-13
Profiles in Excellence

14-23
Supplier Cross Index

24-40
Vendor & Product Directory

41-48
Product Stories

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Globe graphic © iStockphoto/Edward Grajeda

World Radio History

COMREX

STAC VIP Makes Your Phones Sound Amazing

STAC VIP

VoIP (Voice over IP) technology has taken the telephone industry by storm due to its flexibility and low costs. It's time for radio broadcasters to reap the benefits of this change. STAC VIP smoothly integrates legacy POTS lines with VoIP technology to deliver a new way to manage telephone calls for talk shows, interviews and contests. STAC VIP can take traditional POTS calls, but breaks new ground by handling calls from "HD Voice"-capable smartphone apps, such as VIP QC from Comrex, as well as high-quality calls from Skype™ users. Complete with the STAC IP Call Screening and Control Interface, the STAC VIP Caller Management system will even integrate with your VoIP PBX system. STAC VIP leads the charge in migrating old-fashioned on-air telephones to dramatically clearer wideband audio quality — just another reason to put Comrex on the line.

STAC VIP Control Surface

STAC VIP utilizes the familiar STAC Control Surface which provides clear indication of phone line and caller status. Super bright colored LEDs and an ergonomically friendly button layout give a concise overview and control of all callers at a glance. STAC CS integrates unique features like "Busy All Lines" and control of the "Auto Attendant" feature, which answers calls and plays out a custom message before parking calls on hold.

VoIP

At the core of STAC VIP is a sophisticated engine that can process various types of incoming calls. For years, VoIP telephony has provided consumers with low-cost, high-quality communications and now STAC VIP can deliver those same benefits to broadcasters. STAC VIP can process six to 12 incoming VoIP calls on a single DSL line utilizing telephone-grade G.729 audio compression. By employing a single DSL vs. multiple POTS or ISDN phone lines, huge cost savings are easily realized.

Legacy POTS/ISDN

While many STAC VIP users might consider going entirely VoIP, some customers still rely on traditional POTS and ISDN phone lines. STAC VIP can accommodate these by use of Comrex approved VoIP Gateway devices which are commercially available from several manufacturers. This allows for existing POTS/PSTN, ISDN and T1/E1 telephone lines to be converted to a SIP compatible VoIP trunk for connection to the STAC VIP Mainframe.

IP PBX

Numerous broadcast facilities depend on IP-based PBX systems to deliver telephone calls throughout their offices. However, routing a call from the front-office switchboard to the on-air studio has been difficult, if not impossible, to accomplish. STAC VIP simplifies the process by allowing for easy extension sharing and integration with SIP-based PBX systems.

Wideband "HD Voice"

The VoIP industry has been actively promoting "HD Voice." This wideband voice standard requires that calls are processed with quality better than the narrowband 3 kHz frequency response that has been a staple of the telco industry for over 100 years. Many new VoIP telephones offer high-quality audio codecs such as G.722 and Speex which allows them to be branded "HD Voice-capable." STAC VIP provides the ability to accept incoming wideband voice calls from these new VoIP telephones as well as wideband voice-capable smartphones and soft codecs. Now your callers can sound like in-studio guests!

Get all the details about the new STAC VIP at *www.comrex.com*.

COMREX

Comrex Corp.

19 Pine Rd.
Devens, MA 01434-5068

Phone: 978-784-1776
Email: info@comrex.com
Website: www.comrex.com

World Radio History

TO MAKE
<.... THIS SOUND LIKE THIS ...>

GET THIS

STAC VIP MAKES YOUR PHONES SOUND AMAZING

STAC VIP uses VoIP (Voice over IP) to manage *all* your phone calls for talk shows, interviews and contests. It handles calls from Skype™ as well as HD Voice-capable Smartphone apps.

To really get the full impact of what HD Voice can do for your call-in shows, you've got to hear STAC VIP. So...hear it in action right now: comrex.com/products/stacvip.html

STAC VIP
VoIP • POTS • HD VOICE • CALL MANAGEMENT SYSTEM

plugged into Skype™
STAC VIP is Plugged Into Skype™

comrex.com

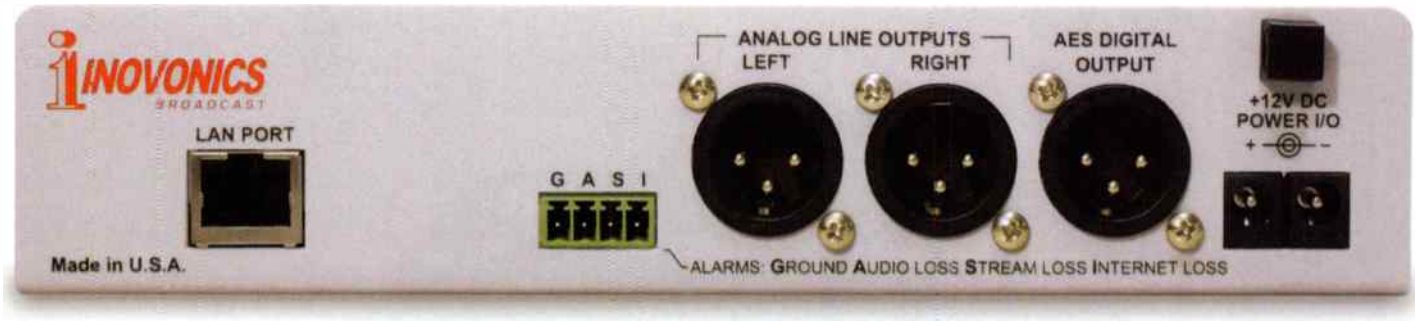
COMREX

19 Pine Road, Devens, MA 01434 USA Tel: 978-784-1776 • Fax: 978-784-1717 • Toll Free: 800-237-1776 • e-mail: info@comrex.com

World Radio History

INOVONICS

Inovonics 610 — Internet Radio Monitor



The Inovonics 610 is the very first dedicated hardware solution for uninterrupted monitoring of streaming radio quality and performance.

Much more than a consumer-grade "Internet Radio," the 610 provides balanced analog and AES-digital outputs, self-logging alarms that constantly check for audio loss, stream loss and Internet loss, and an easy-to-use tuner that decodes audio and displays live metadata for MP3, Ogg Vorbis and AAC formats.

Rear-panel alarm tallies provide local alarms, and online notifications will alert personnel with email or instant text messages when any of the three alarms occur.

The front-panel displays left and right audio metering (dBfs), local LED alarms and an LCD screen with jog wheel for advanced control and editing of all tuning and monitoring parameters.

The 610's "Responsive" Web interface allows complete access and remote control of the unit from your smartphone, tablet or desktop computer, and reliable two-way connectivity is ensured with a built-in Dynamic DNS utility. The 610 will stay locked to your stream even in the event of a power cycle or loss of signal.

Rev2.0 Firmware

The release of Rev 2.0 firmware (December, 2013) introduces new features such as SNMP support for integrating the 610 with your existing IP based remote control systems, and email alarm reporting now includes daily, weekly and monthly logs. Visit www.inovonicsbroadcast.com for a full list of the new features and to upgrade your existing 610.

Free yourself from uncertainty when it comes to Internet radio and get an Inovonics 610 Internet Radio Monitor today.

List price $990.00

INOVONICS BROADCAST

Inovonics

5805 Hwy 9
Felton, CA 95018

Tel: 831-458-0552
Email:
sales@inovonicsbroadcast.com
Website:
www.inovonicsbroadcast.com

World Radio History

The right tool makes all the difference.

Internet Radio is the future, and until now staying on top of your streaming audio performance has been a real challenge. Limited software tools and unreliable PC based solutions just aren't cutting it.

Introducing the **Inovonics 610.** Finally, a dedicated tool for uninterrupted monitoring of your Internet Radio stream. Professional outputs, live metadata display, alarm logging, and email alerts are just a few of the features guaranteed to let you know immediately when things go wrong.

Get the full picture at:
www.inovonicsbroadcast.com/model/610

610 Internet Radio Monitor

- ✓ **Locks to your stream.**
- ✓ **MP3, AAC and Ogg decoding.**
- ✓ **Audio Loss, Stream Loss & Internet Loss Alarms.**
- ✓ **IOS, Android remote control.**
- ✓ **Email/Text message alerting.**
- ✓ **SNMP control & monitoring.**

INOVONICS BROADCAST

World Radio History

DAWNCO

You'll Find Our Prices Reasonable, Our Reasoning Priceless

Satellite Signal Level Meter and Sat Identifier

Our new "SAT-BUDDY" satellite signal level meter will measure 950–2150 MHz L band signals. The unit powers the LNB, and provides digital signal measurement for carriers. The unit can identify satellites by name, measure signal levels –70 to 10 dBm, plus display carrier-to-noise (C/N), signal quality, and Bit Error Rate. Confidently recognize the satellite a dish is aimed at, and peak the antenna to maximum performance.

Surge Supressor for Lightning Near Satellite Antenna

Place the "LNB-Zap-Stop" in the coaxial cable line that runs from the dish, to the satellite receiver. Think of it as an "insurance policy" to protect expensive indoor equipment from lightning hits. Transient Suppressing Diode technology works to block high voltage surges. The lightning protection units can take multiple strikes, with no need for resetting or replacing.

COVERsat and HEATsat Make Your Dish Reliable in Bad Weather

The COVERsat will prevent most signal outages caused by snow and ice. It is wrapped over the front face of a dish, creating a steep and slippery surface to prevent the accumulation of ice & snow. The cover is made to exactly fit the customers specified dish type. The HEATsat satellite antenna heater will completely stop signal outages caused by snow and ice. This reliable dish back-side electric heater keeps snow & ice from forming on the dish, by heating the reflector when snow and ice conditions are present. Purchase the HEATsat to upgrade existing satellite antennas, and ask for it to be included with your new dish purchases.

HD-Grade Satellite LNB Will Boost EbNo on Receivers

Invest a FEW HUNDRED DOLLARS into upgrading your satellite antenna-mounted LNB, to the new DAWNco "L series" LNBs, and watch for improved EbNo readings on your digital satellite receivers. DAWNco's latest generation of C and Ku band LNBs have best-in-industry specs for "1dB gain compression." Install these units to make a real difference in the reception of HD and other MPEG4 or DVB-S2 satellite channels. Internal circuitry has been completely redesigned for reduced power draw, so that indoor receivers and power supplies will never be over-taxed. In order to prevent signal outages, when outdoor temperatures fluctuate, DAWNco's best LNBs feature a highly stable +/– 5 Khz rating.

Improve Reception with 3.7 Meter Satellite Dish for Less than $2K

Keep your dish cost under $2K, and permanently improve your satellite reception capability, with our fiberglass 3.7 meter satellite antenna. This is the perfect dish for rooftop or island locations, where the 8 petal design offers easy transport to site. Ground mount USA sites may prefer our HIGH-GAIN aluminum sat antennas, in sizes up to 5.0 meter. The customer will specify stationary or motorized configuration for the dish, and DAWNco offers all other items needed for a complete system.

DAWNCO

DAWNco

3340 S. Lapeer Rd.
Orion, MI 48359

Phone: 800-866-6969
248-391-9200
E-mail: sales@dawnco.com
Website: www.dawnco.com

World Radio History

Think Innovation...
Think iMediaTouch...

iMediaTouch
Broadcast Automation

Innovative software and solutions
for broadcast radio automation

iMediaLogger
Digital Audio Logging

Advanced audio logging, recording
and distribution technology for radio

omt technologies

OMT Technologies Inc. 888-665-0501
www.imediatouch.com Sales@iMediaTouch.com

World Radio History

RCS

When You Need Software, You'll Want RCS

Award-Winning Automation Zetta

RCS is the world's leading provider of broadcast software, used by more than 10,500 radio and TV stations, cable music channels, satellite radio networks and Internet music sites worldwide. RCS has been the leader in software innovations since 1979.

From GSelector4, the world's most powerful multi-station scheduling system, to Zetta, the award-winning digital radio automation system, to our integrated traffic software Aquira, RCS has a complete suite of software products for today's media outlet. RCS software solutions are more advanced, extremely reliable, comfortably intuitive and expediently flexible and backed up by a world-class support team.

Our global team of employees has a vast knowledge of every product and service produced at RCS. We believe in our customer's success. We have the best problem-solving and solution minds in the broadcast software industry. When you need software, you'll want RCS.

Our next generation of software applications:

ZETTA

Zetta's new sleek design has been simplified, with a streamlined interface that feels instantly comfortable to those who have worked in radio for decades or one day. RCS products share the same DNA, which means you don't have to worry about integration. Zetta seamlessly integrates with your music scheduler GSelector4, RCSnews and our traffic system, Aquira.

RCSremote is an application (app) for your phone or handheld device that lets you control your Zetta's station log. You can manipulate the log with play, pause, stop and fade and go. You can change the station you are controlling as well as switch between satellite, live assist and automated modes. Configure macros and record simple voice tracks into the system. RCSremote saves changes into the automation system's library.

SELECTOR2GO

Tailored for the Web, Selector2Go works on all of today's contemporary browsers and across platforms and mobile devices. The system is specifically designed to keep the interface simple and straightforward.

The data flow is kept small to enable fast performance, even on mobile networks like 3G. Selector2Go gives you powerful core scheduling and schedule editing functionality and essential analysis details of your rotations in the palm of your hand.

AQUIRA ONLINE

Aquira Online lets you stay in constant contact with the traffic team back at the station. Aquira Online's benefits speak for themselves: Easy and Convenient Access - Interact with Aquira Online from any location with Internet access. Better Customer Service - Access data fast and deliver a prompt and accurate service to your Clients; Controlled Security - See only your own proposals and your own clients; Increased Efficiency - no re-keying data required.

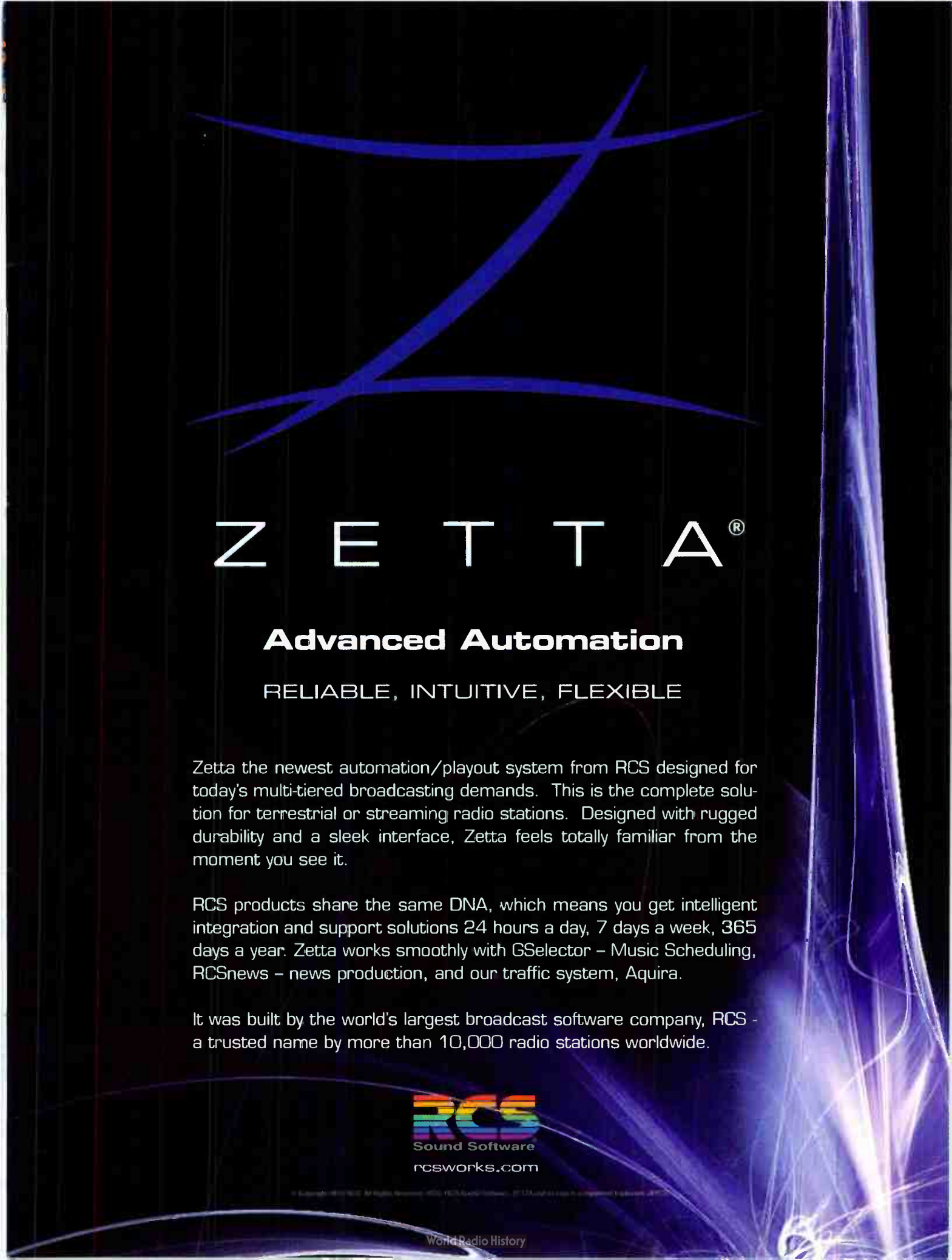
RCS Sound Software

RCS

445 Hamilton Ave
White Plains, NY 10601

Phone: 914-428-4600
Email: sales@rcsworks.com
Website: www.rcsworks.com

World Radio History



World Radio History

TIELINE

Innovative & Smart IP Streaming Solutions

Merlin PLUS: 6 Remotes in Every Box

Merlin PLUS

In a world first, Merlin PLUS allows engineers to rapidly expand their remote capabilities and manage up to six simultaneous IP remotes between the studio and Tieline IP codecs, or smartphones using the Report-IT app. This reduces rack space requirements at the studio and delivers outstanding value for money.

Merlin PLUS also delivers unprecedented flexibility by being capable of two simultaneous bidirectional mono or stereo remote connections, with a separate bidirectional mono IFB connection for each remote site. Importantly, the Merlin PLUS IFB channel is compliant with I3P EBU3347 requirements for interoperability of AoIP production intercoms.

Optional ISDN or POTS* modules ensure connection flexibility and standard algorithms include aptX® Enhanced, AAC, Opus, MPEG Layer II, MP3, Tieline Music and MusicPLUS, G.722 and G.711. Merlin PLUS also has dual Gigabit Ethernet ports, dual redundant power supplies, audio silence detection and SmartStream PLUS. A WheatNet IP codec version is also available.

Bridge-IT XTRA for Affordable IP STLs

Bridge-IT XTRA

Bridge-IT XTRA is Tieline's newest inexpensive STL and multi-point stereo IP audio codec.

Compare Bridge-IT XTRA's superior programming functionality and simple user interface with other low cost codecs and you will be impressed. It features redundant internal power supplies, analog and digital XLR in/outs, and a front panel interface with navigation buttons, an LCD display, PPM metering and a dialing key pad. Insert an SD/SDHC card for MP3 or linear backup audio and use algorithms including AAC-ELD v1 and v2, aptX® Enhanced, MPEG Layer II and many more.

Genie Distribution: Audio from One to Many

Look no further than the award winning Genie Distribution for multipoint and multichannel audio distribution solutions. Create bidirectional links with up to 6 codecs, multicast, or multi-unicast up to three unique stereo streams to separate multi-unicast codec groups.

Genie Distribution delivers STL-grade audio with multiple levels of power, audio and network redundancy, including Tieline's revolutionary SmartStream PLUS software for streaming simultaneous redundant data streams from dual Ethernet ports, ensuring you're always on the air!

SmartStream PLUS maintains the rock solid STL-grade audio quality you would expect over a T1/E1 link by using inexpensive IP networks like the public internet, saving you thousands of dollars in leased line costs alone.

Add an optional ISDN or POTS* module for connection backup, or to integrate with existing infrastructure as you transition to IP. Advanced network failure detection provides switching to a backup IP connection or alternative transport such as ISDN if required. A WheatNet-IP codec version is also available.

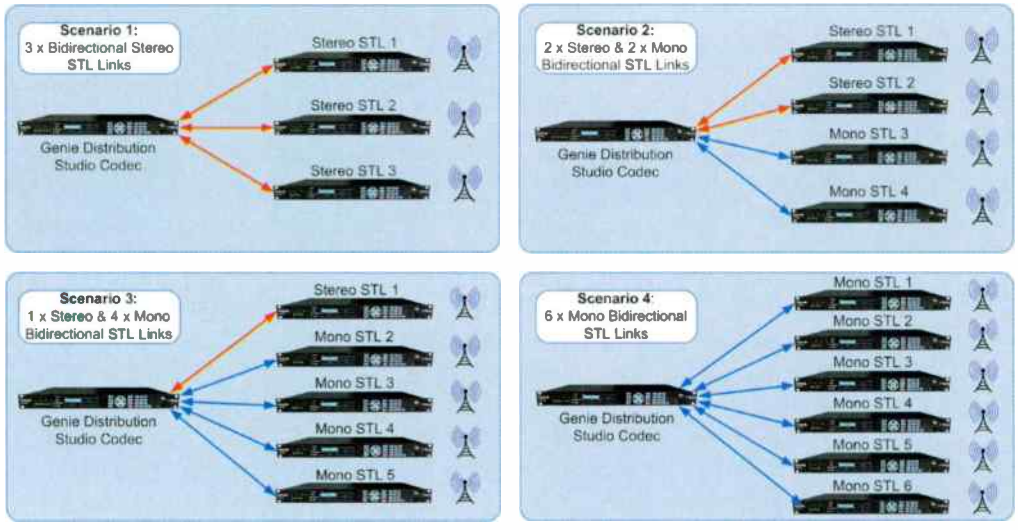
**POTS module coming soon*

Tieline®
The Codec Company

Tieline USA

7202 East 87th Street
Suite #116
Indianapolis, IN 46256

Phone: 317-845-8000
Email: sales@tieline.com
Website: www.tieline.com



Genie Distribution

World Radio History

Merlin Transmit bidirectional high fidelity IP audio and IFB between the studio and a wide range of Tieline remote codecs or smartphones using Tieline's Report-IT application.

Merlin PLUS Create and manage up to 6 Independent bidirectional mono connections with IP codecs or smartphones. Merlin PLUS with WheatNet-IP version is also available.

Report-IT: Turn your iPhone®* or Android** Smartphone into an IP audio codec with Tieline's Report-IT App. Available in 10, 50 and 100 license packs.

Bridge-IT: The ultimate low cost, high-performance, point-to-point and multi-point stereo IP audio codec solution.

BRIDGE-IT XTRA A high-performance, point-to-point and multi-point stereo IP audio codec with all the features of the Bridge-IT IP codec and more!

Tieline®

The Codec Company

Genie STL A powerful, rock solid IP audio codec for studio-to-transmitter links. Includes dual PSUs plus audio and network backup and much more.

Genie DISTRIBUTION Deliver a wide range of solutions for mission critical stereo IP audio distribution. Genie Distribution with WheatNet-IP also available.

COMMANDER G3

2 Channel Field IP Codec

COMMANDER G3

2 Channel Studio Rack IP Codec

i-Mix G3

5 Channel Mixer IP Codec

Call: 1-317-845-8000 **Email: sales@tieline.com** **Web: www.tieline.com**

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** Android is a trademark of Google Inc.
World Radio History

Supplier Cross Index

This section helps you locate suppliers of types of equipment and service. Find contact information for these companies in the Vendor & Product Directory section. This list is based on information provided by the companies; suppliers are listed only if they checked a given category.

Acoustic and Building Materials

305 Broadcast
Acoustics First Corp.
Auralex Acoustics Inc.
Broadcasters General Store
BSW
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Mainesource Inc.
ProAudio.com
RAM Systems
RealTraps
SCMS Inc.
Studio Items Inc.
WhisperRoom Inc.

Antennas (Broadcast)

305 Broadcast
Alan Dick Broadcast Ltd.
Aldena Telecomunicazioni Srl.
AM Ground Systems
Bext Inc.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Clear Channel Satellite
Communications Technologies Inc.
DB Elettronica Telecomunicazioni
Dielectric Corp.
Doug Vernier, Telecommunications Consultants
ERI - Electronics Research Inc.
Fanfare Electronics Inc.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Ice Krackers Inc.
Jampro Antennas Inc.
JT Communications
Kathrein-Werke KG
Kintronic Labs Inc.
Label Italy Srl.
Larcan USA Inc.
LBA Group
LS telcom
Mainesource Inc.
MediaTech USA
Micronetixx Communications
Myat Inc.
NicomUsa Inc.
Nott Ltd.
Nova Electronics
OMB America
P Cube Inc.
Phasetek Inc.
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
Propagation Systems Inc. - PSI
PTEK
R.V.R. USA
RIZ Transmitters Co.
SCMS Inc.
Shively Labs
Superior Broadcast
T.Z. Sawyer Technical Consultants
Transcom Corp.
Transradio SenderSysteme Berlin

Audio Accessories

305 Broadcast
42NetMedia Ltd.
AEQ Broadcast International Inc.
AKG Acoustics US
Audio-Technica U.S. Inc.
Audioarts Engineering
AudioScience Inc.
Barix Technology Inc.
Broadcast Tools Inc.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
BW Broadcast
Dan Dugan Sound Design
DB Elettronica Telecomunicazioni
Denon & Marantz Professional
End to End Technologies
ESE
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Glensound
Global Broadcast Supply Pte Ltd.
Graham Studios
Harris Broadcast
Henry Engineering
Independent Audio Inc.
JK Audio Inc.
JT Communications
Logitek Electronic Systems
Mainesource Inc.
Media Engineering
NicomUsa Inc.
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
R.V.R. USA
Radio Systems
RDL
RTW International Corp
SADiE
SCMS Inc.
Sennheiser
Sierra Automated Systems & Engineering Corp.
Sonifex Ltd.
Steinberg
TFT Inc.
Titus Technological Laboratories
Video Mount Products
Wheatstone Corp.
WhisperRoom Inc.
Yamaha
Yellowtec USA

Audio Delay Systems

25-Seven Systems Inc.
305 Broadcast
Axel Technology
Bay Country Broadcast Equipment
Broadcast Warehouse Ltd.
Broadcasters General Store
Clear Channel Satellite
DHD Deubner Hoffmann Digital
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Junger Audio USA
Logitek Electronic Systems
Mainesource Inc.
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
RDL
SCMS Inc.
Sonifex Ltd.

Audio Distribution, Between Locations

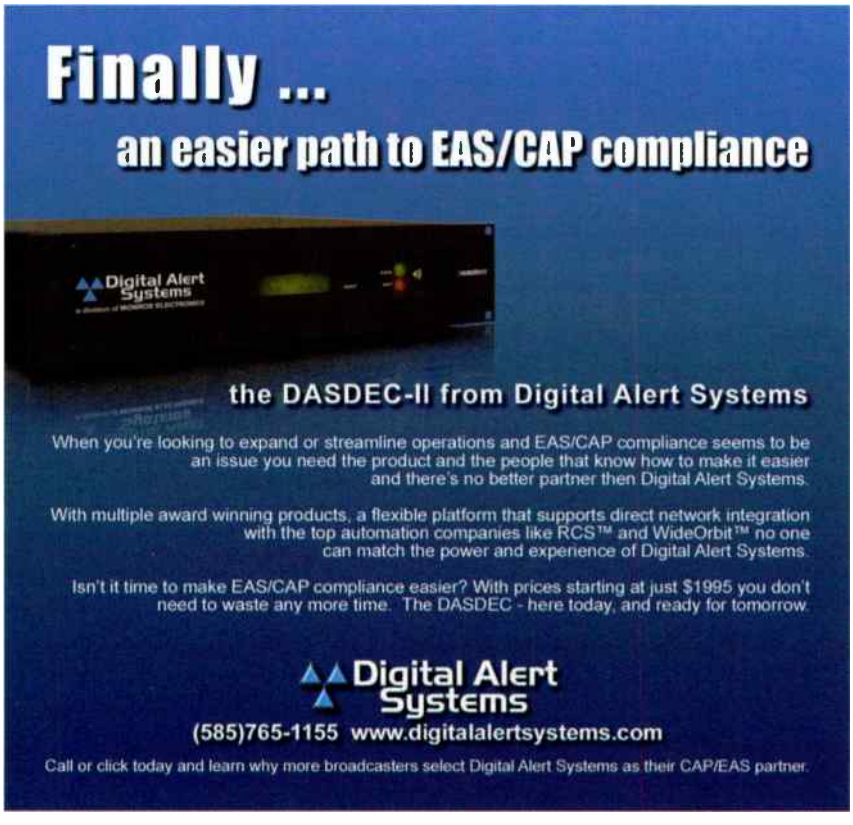
42NetMedia Ltd.
AEQ Broadcast International Inc.
Arrakis Systems
Ashly Audio
AudioScience Inc.
AVT Audio Video Technologies
Axia Audio, a Telos Alliance Company
Barix Technology
Bay Country Broadcast Equipment
Blurt
Broadcast Devices Inc.
Broadcast Tools Inc.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
BW Broadcast
Clear Channel Satellite
DAVID Systems Inc.
DEVA Broadcast Ltd.
Digigram
ENCO Systems Inc.
End to End Technologies
Factum
FiberPlex Technologies LLC
Fraunhofer IIS
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Glensound
Global Broadcast Supply Pte Ltd.
Harris Broadcast
Inovonics
International Datacasting Corp.
Jünger Audio
Logitek Electronic Systems
Mainesource Inc.
Mayah Communications GmbH
MediaTech USA
MusicamUSA
Netia Inc.
Nova Electronics
NPR Satellite Services
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
Qphonics
Radionomy
SciSys Deutschland GmbH
Sierra Automated Systems & Engineering Corp.
Sonifex Ltd.
Symetrix Inc.
Telos Systems, a Telos Alliance Company
Tieline USA
Titus Technological Laboratories
Wheatstone Corp.
WorldCast Systems

Audio Loggers

305 Broadcast
42NetMedia Ltd.
AudioScience Inc.
Axel Technology
Axia Audio, a Telos Alliance Company
Broadcast Electronics/Commotion
Broadcast Software International
Broadcast Warehouse Ltd.
Broadcasters General Store
Burli Software Inc.
Digital JukeBox
End to End Technologies
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Jünger Audio USA
Mainesource Inc.
Marantz Professional
MB Soft
Netia Inc.
OMT Technologies
Ots Labs
PrimaSat Communications Inc.
Pristine Systems Corp.
ProAudio.com
Progressive Concepts
SciSys Deutschland GmbH
SCMS Inc.
Sonifex Ltd.
Stirlitz Media
Telos Systems, a Telos Alliance Company

Audio Processing, On-Air

305 Broadcast
42NetMedia Ltd.
AEQ Broadcast International Inc.
Arrakis Systems

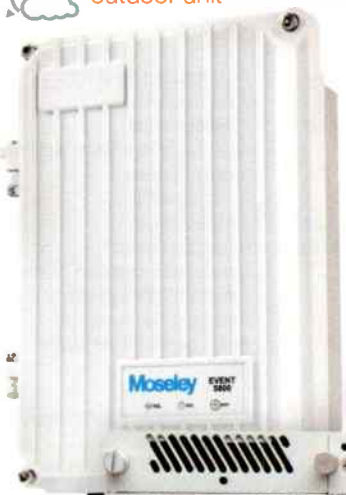


World Radio History

HIGH CAPACITY
EVENT STUDIO TRANSMITTER LINKS

Moseley BROADCAST

outdoor unit



TAKE ADVANTAGE OF WIRELESS HIGH PAYLOAD STL/TSL CAPACITY

Moseley EVENT STL/TSL systems provide up to 155 Mpbs combined IP, T1/E1 payloads. Multi-station clusters can convey multiple linear uncompressed audio pairs for a truly cost-effective STL/TSL link. Connect your existing T1/IP audio hardware directly into the EVENT system, or use Moseley Rincon for your audio payloads. An optional DVB-ASI module is available for full duplex video.

EVENT systems are fully bi-directional including a Software Defined Indoor Unit (SDIDU) and Outdoor Unit (ODU), eliminating the need for costly waveguide hardware. The ODU is available in the license free 5.8 GHz band, or licensed 11, 18, or 23 GHz bands. Appropriate external antennas are selected based on path length.

indoor unit

INTELLIGENT SYSTEM DESIGN

Spectrum-scalable digital radios with user-selectable data rates enable broadcasters to have greater flexibility in STL planning and future growth. The integrated T1/E1 and Ethernet interfaces allow for a combination of T1/E1 and IP packet data.

IP APPLIANCES AND APPLICATIONS

Offer IP transmitter control, surveillance security, and site monitoring to reduce downtime, and protect valuable station assets while saving travel time to the site.

REMOTE MIRRORED SERVERS

From the transmitter site, offers backup of business records and programming content to get you back on the air quickly in the event of a studio outage.

EMAIL AND INTERNET ACCESS FROM THE TRANSMITTER SITE

Saves engineers time accessing manuals or technical support from manufacturers during maintenance sessions.

SIMPLE NETWORK MANAGEMENT PROTOCOL (SNMP)

Full SNMP package with GUI provides easy monitoring and configuration changes.

Contact The Moseley Sales Team to Custom Configure Your EVENT STL/TSL Today!

moseleybroadcast.com

World Radio History

Supplier Cross Index

ATC Labs
Audioarts Engineering
AudioScience Inc.
Axel Technology
Bay Country Broadcast Equipment
Broadcast Software International
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
BW Broadcast
Dan Dugan Sound Design
DAVID Systems Inc.
DaySequerra
DB Elettronica Telecomunicazioni
DHD Deubner Hoffmann Digital
Factum
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Independent Audio Inc.
Inovonics
JT Communications
Jünger Audio USA
Linear Acoustic, A Telos Alliance Company
Logitek Electronic Systems
Mainesource Inc.
Media Engineering
MediaTech USA
Merging Technologies
Nautel
NeoGroupe
Netia Inc.
NicomUsa Inc.
Omnia Audio
OMT Technologies
Orban
Ots Labs
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
Qphonics
R.V.R. USA
RDL
SCMS Inc.
Softron Media Services
Sound4
Steinberg
Vorsis
Wheatstone Corp.
WorldCast Systems
Yellowtec USA

Audio Processing, Production

305 Broadcast
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Ashly Audio
AudioScience Inc.
AVT Audio Video Technologies
Axel Technology
Bay Country Broadcast Equipment
Broadcast Software International
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Burli Software Inc.
BW Broadcast
Dan Dugan Sound Design
DAVID Systems Inc.
DaySequerra
DB Elettronica Telecomunicazioni
Digigram
Eventide
Fraunhofer IIS
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Inovonics
Jünger Audio USA
Linear Acoustic,a Telos Alliance Company
Mainesource Inc.
Media Engineering
Merging Technologies
NeoGroupe
NicomUsa Inc.
Omnia Audio
OMT Technologies
Orban
PreSonus Audio Electronics
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
Qphonics
RDL
SADiE
SciSys Deutschland GmbH
SCMS Inc.
Sound4
Steinberg
Symetrix Inc.
Vorsis
Wheatstone Corp.

Audio Routing and Distribution Within a Facility

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Arctic Palm Technology Inc.
Arrakis Systems
Ashly Audio
AudioScience Inc.
Axia Audio, a Telos Alliance Company
Barix Technology Inc.
Bay Country Broadcast Equipment
Broadcast Devices Inc.
Broadcast Tools Inc.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Clear Channel Satellite
DAVID Systems Inc.
DHD Deubner Hoffmann Digital
Digigram
Dixon Systems Inc.
FiberPlex Technologies LLC
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Harris Broadcast
Henry Engineering
Jünger Audio USA
Logitek Electronic Systems
Mainesource Inc.
Media Engineering
MediaTech USA
Merging Technologies
MusicamUSA
NeoGroupe
PrimaSat Communications Inc.
Pristine Systems Corp.
ProAudio.com
Progressive Concepts
Qphonics
Radio Systems
RDL
Sierra Automated Systems & Engineering Corp.
Sonifex Ltd.
Sound4
Studer USA
Symetrix Inc.
Titus Technological Laboratories
Wheatstone Corp.
Yellowtec

Automation Systems

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AEQ Broadcast International Inc.
Arrakis Systems
AudioScience Inc.
Axel Technology
Broadcast Bionics
Broadcast Electronics/Commotion
Broadcast Software International
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Burli Software Inc.
CGS Infographics Automation
DAVID Systems Inc.
DB Elettronica Telecomunicazioni

"Making a four-station investment in Skylla was one of the best decisions I've made in 36 years of small market ownership. Our stations sound better, Skylla support is outstanding and I consume a lot less Rolaids than before making the change. My only regret is not doing business with Smarts many, many years sooner than I did."

- **Roger Utnehmer**, Nicolet Broadcasting, Sturgeon Bay, WI

"The ability of our Smarts system to talk to a system in another location has made running multiple sites very, very easy.

"Smarts people are great! They are helpful."

- **Craig Eckert**, Platte River Radio, Kearney, NE

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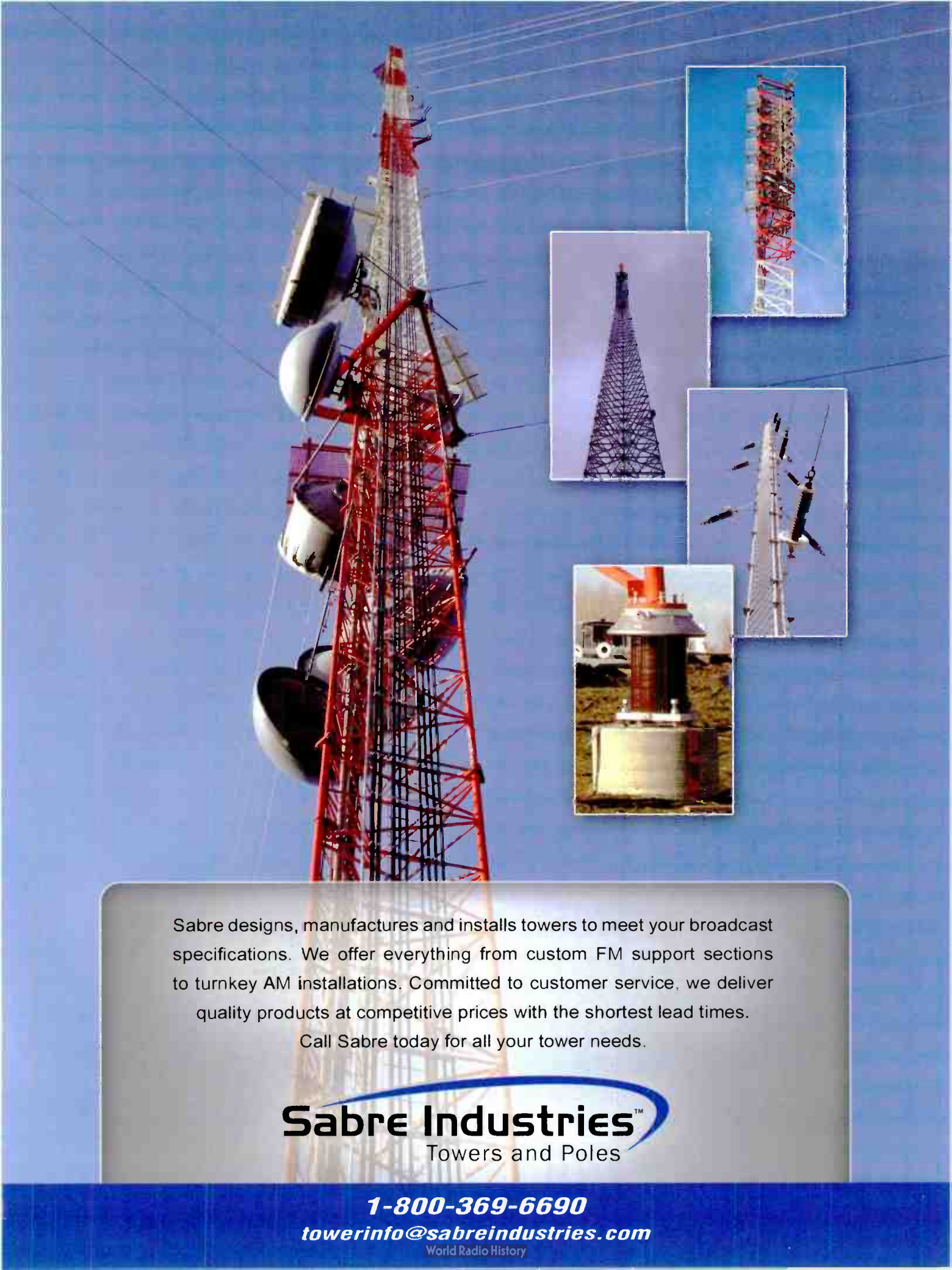
SMARTS Broadcast Systems

World Radio History



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MB Soft
MediaTech USA
MusicMaster Scheduling
Netia Inc.
NewsBoss
OMT Technologies
Ots Labs
Pilat Media
PrimaSat Communications Inc.
Pristine Systems Corp.
ProAudio.com
Progressive Concepts
Qphonics
Radionomy
RCS
RDL
Rushworks
SciSys Deutschland GmbH
SCMS Inc.
Sierra Automated Systems & Engineering Corp.
Smarts Broadcast Systems
Softron Media Services
StationPlaylist.com
Stirlitz Media
VidiGo
WideOrbit

Codecs, Hardware and Software

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ATC Labs
AudioScience Inc.
AVT Audio Video Technologies
Axel Technology
Barix Technology
Bay Country Broadcast Equipment
Broadcast Bionics
Broadcast Tools Inc.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
BW Broadcast
CircuitWerkes Inc.
Clear Channel Satellite
Comrex Corp.
DAVID Systems Inc.
Digigram
DRS Systemtechnik
End to End Technologies
Factum
Fraunhofer IIS
GBS-Giesler Broadcasting Supply
Glensound
Global Broadcast Supply Pte Ltd.
Harris Broadcast
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Jünger Audio USA
Mainesource Inc.
Marketron
Mayah Communications GmbH
MB Soft
Media Engineering
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Merging Technologies
Moseley Associates Inc.
MusicamUSA
NeoGroupe
Orban
Pristine Systems Corp.
ProAudio.com
Progressive Concepts
SCMS Inc.
Sierra Automated Systems & Engineering Corp.
Sonifex Ltd.
Sound4
Telos Systems, a Telos Alliance Company
Tieline USA
Titus Technological Laboratories
WorldCast Systems

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AM Ground Systems
Antenna ID Products
ATC Labs
Blurt
Carl T Jones Corp.
Communications Technologies Inc.
Continental Electronics Corp.
DAVID Systems Inc.
dcsTools.com
Doug Vernier, Telecommunications Consultants
DuTreil Lundin & Rackley Inc.
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Evans Engineering Solutions
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Graham Studios
Hatfield & Dawson Consulting Engineers
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iNetRadio
Isotrope LLC
JT Communications
Jünger Audio
LBA Group
LS telcom
Media Engineering
MediaTech USA
Michael Patton & Associates
MusicamUSA
NeoGroupe
Nova Electronics
Phasetek Inc.
PrimaSat Communications Inc.
Progressive Concepts
Radio Sales Cafe/ RadioSalesCafe.com
Radionomy
RAM Systems
Rohn Products
Szabo Associates Inc.
T.Z. Sawyer Technical Consultants
Titus Technological Laboratories
Transradio SenderSysteme Berlin
V-Soft Communications

Content Syndication and Formats

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Grace Broadcast Sales
UnattendedWeather.com

Datacasting and Data Multiplexing

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Broadcast Electronics/Commotion
Clear Channel Satellite
Factum
FiberPlex Technologies LLC
Global Broadcast Supply Pte Ltd.
Inovonics
Pira.cz
Transradio SenderSysteme Berlin
WorldCast Systems

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Broadcast Bionics
Broadcast Warehouse Ltd.
Broadcasters General Store
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BW Broadcast
DAWNco
DoubleRadius Inc.
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Gemini Sound
Glensound
Global Broadcast Supply Pte Ltd.
Independent Audio Inc.
Lightner Electronics Inc.
Mainesource Inc.
Media Engineering
NeoGroupe
Nova Electronics
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
RAM Systems
Stirlitz Media
SystemsStore
Transcom Corp.

Digital Audio Editors

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Axel Technology
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DAVID Systems Inc.
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Lawo North America Corp.
Mainesource Inc.
Merging Technologies
Netia Inc.
NewsBoss
OMT Technologies
Ots Labs
PreSonus Audio Electronics
Pristine Systems Corp.
ProAudio.com
SADiE
SciSys Deutschland GmbH
SCMS Inc.
Steinberg

Electronic and Electric Components

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Barix Technology Inc.
Bauer Transmitters Inc.
BSW
Coaxial Dynamics
Digi-Key Corp.
Econco
Elenos Srl.
Factum
Global Broadcast Supply Pte Ltd.
JT Communications
Middle Atlantic Products
Mouser Electronics
Nott Ltd.
Penta Laboratories
Phase Technologies
Phasetek Inc.
Pro-Comm Inc.
Progressive Concepts
Qphonics
Surcom Associates Inc.

Emergency Signaling and Alerting, EAS

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Alert FM
Barix Technology Inc.
Bay Country Broadcast Equipment
Broadcasters General Store
BSW
CircuitWerkes Inc.
Dayton Industrial

World Radio History

Digital Alert Systems
GBS-Giesler Broadcasting Supply
Gorman Redlich Mfg. Co.
Mainesource Inc.
NicomUsa Inc.
ProAudio.com
Progressive Concepts
Qphonics
Sage Alerting Systems
SCMS Inc.
Sonifex Ltd.
Studio Items Inc.
TFT Inc.
Titus Technological Laboratories
Transradio SenderSysteme Berlin
UnattendedWeather.com

Equipment Rental and Leasing

AEQ Broadcast International Inc.
Factum
Glensound
Lightner Electronics Inc.
Mainesource Inc.
MusicamUSA
NeoGroupe
Nova Electronics
SCMS Inc.
Sound4

Microphones & Accessories

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AKG Acoustics US
Audio-Technica U.S. Inc.
Bay Country Broadcast Equipment
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
DPA Microphones
Electro-Voice
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Gemini Sound
Glensound
Global Broadcast Supply Pte Ltd.
Heil Sound Ltd.
Henry Engineering
JK Audio Inc.
Mainesource Inc.
MusicamUSA
Neumann USA
NicomUsa Inc.
PreSonus Audio Electronics
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
RDL
RODE Microphones
SCMS Inc.
Sennheiser
Sound4
Studio Items Inc.
Yellowtec USA

Microwave, STL and RPU Equipment

305 Broadcast
Aldena Telecomunicazioni Srl.
Armstrong Transmitter Corp.
AVT Audio Video Technologies
Barix Technology
Bay Country Broadcast Equipment
Bext Inc.
Broadcast Devices Inc.
Broadcast Electronics/Commotion
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Clear Channel Satellite
DoubleRadius Inc.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Harris Broadcast
Mainesource Inc.
MediaTech USA
Moseley Associates Inc.
NicomUsa Inc.
Nova Electronics
OMB America
PrimaSat Communications Inc.
Pro-Comm Inc.
ProAudio.com
Progressive Concepts
R.V.R. USA
SCMS Inc.
TFT Inc.
Tieline USA
Transcom Corp.
WorldCast Systems

Mixers

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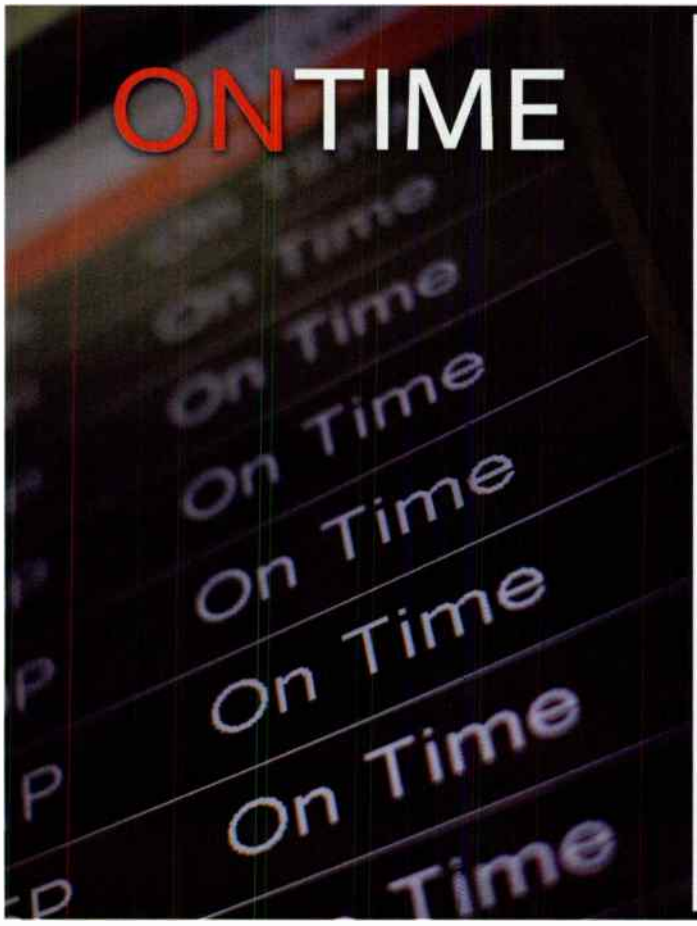
42NetMedia Ltd.
AEQ Broadcast International Inc.
Arrakis Systems
Audioarts Engineering
Axel Technology
Axia Audio, a Telos Alliance Company
Bay Country Broadcast Equipment
Broadcast Bionics
Broadcast Tools Inc.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Dan Dugan Sound Design
DB Elettronica Telecomunicazioni
DHD Deubner Hoffmann Digital
Dixon Systems Inc.
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Gemini Sound
Glensound
Global Broadcast Supply Pte Ltd.
Harris Broadcast
Henry Engineering
JK Audio Inc.
Lawo North America Corp.
Logitek Electronic Systems
Mainesource Inc.
Media Engineering
Merging Technologies
NicomUsa Inc.
PreSonus Audio Electronics
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
Qphonics
R.V.R. USA
Radio Systems
RDL
Roland Systems Group U.S.
Sandies
SCMS Inc.
Sierra Automated Systems & Engineering Corp.
Sonifex Ltd.
Studer USA
VidiGo
Wheatstone Corp.
Yamaha
Yellowtec USA

Music/Production Libraries

305 Broadcast
BSW
Digital JukeBox
Grace Broadcast Sales
Pristine Systems Corp.
Steinberg
TRF Production Music Libraries
UncompressedMusic.com

Power Products, Generators, UPS

305 Broadcast
Broadcast Tools Inc.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Global Broadcast Supply Pte Ltd.
Henry Engineering



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Sine Control Technology Inc.
Superior Electric

Profanity Delays

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Broadcast Warehouse Ltd.
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Eventide
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Logitek Electronic Systems
Mainesource Inc.
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
Qphonics
SCMS Inc.
Sonifex Ltd.

Promotional Equipment and Services

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Blurt
Global Broadcast Supply Pte Ltd.
Grace Broadcast Sales
Kantar Media SRDS

Racks and Furniture

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Arrakis Systems
Axel Technology
Balsys Wood Arts
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
DAWNco
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Graham Studios
Harris Broadcast
Kintronic Labs Inc.
Mainesource Inc.
MediaTech USA
Middle Atlantic Products
Omnirax Broadcast Furniture
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
RAM Systems
SCMS Inc.
Sonifex Ltd.
Studio Items Inc.
Studio Technology
Video Mount Products
WhisperRoom Inc.
Yellowtec USA

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A.T.S. USA Inc.
AEQ Broadcast International Inc.
Arrakis Systems
Audion Laboratories Inc.
AudioScience Inc.
Bay Country Broadcast Equipment
Blurt
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Burli Software Inc.
Clear Channel Satellite
DAVID Systems Inc.
Denon & Marantz Professional
Digital JukeBox
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Mainesource Inc.
Marantz Professional
MediaTech USA
Merging Technologies
Netia Inc.
Omnia Audio
Ots Labs
PreSonus Audio Electronics
PrimaSat Communications Inc.
Pristine Systems Corp.
ProAudio.com
RCS
Roland Systems Group U.S.
SADiE
SciSys Deutschland GmbH
SCMS Inc.
Steinberg
Stirlitz Media
Yamaha
Yellowtec

Remote Facility Control and Event Controllers

305 Broadcast
42NetMedia Ltd.
ANT Group Srl.
Barix Technology
Bay Country Broadcast Equipment
Broadcast Tools Inc.
BSW
Burk Technology
CircuitWerkes Inc.
Clear Channel Satellite
Continental Electronics Corp.
Elenos Srl.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Independent Audio Inc.
Mainesource Inc.
Media Engineering
MediaTech USA
Nova Electronics
Progressive Concepts
Sine Systems
WorldCast Systems

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Altronic Research Inc.
Armstrong Transmitter Corp.
Broadcast Devices Inc.
Broadcast Electronics/Commotion
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
BW Broadcast
Clear Channel Satellite
Coaxial Dynamics
CPI / Eimac Operations
DAWNco
Dielectric Corp.
DoubleRadius Inc.
Elenos Srl.
ERI - Electronics Research Inc.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Jampro Antennas Inc.
Kathrein-Werke KG
Kintronic Labs Inc.
Label Italy Srl.
LBA Group
Mainesource Inc.
MediaTech USA
Micronetixx Communications
Myat Inc.
NicomUsa Inc.
Nova Electronics
P Cube Inc.
Penta Laboratories
Phasetek Inc.
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
Propagation Systems Inc. - PSI
R.V.R. USA
SCMS Inc.
Sennheiser
Shively Labs
Surcom Associates Inc.
Transcom Corp.

RF Feedline and Waveguide

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Broadcast Warehouse Ltd.
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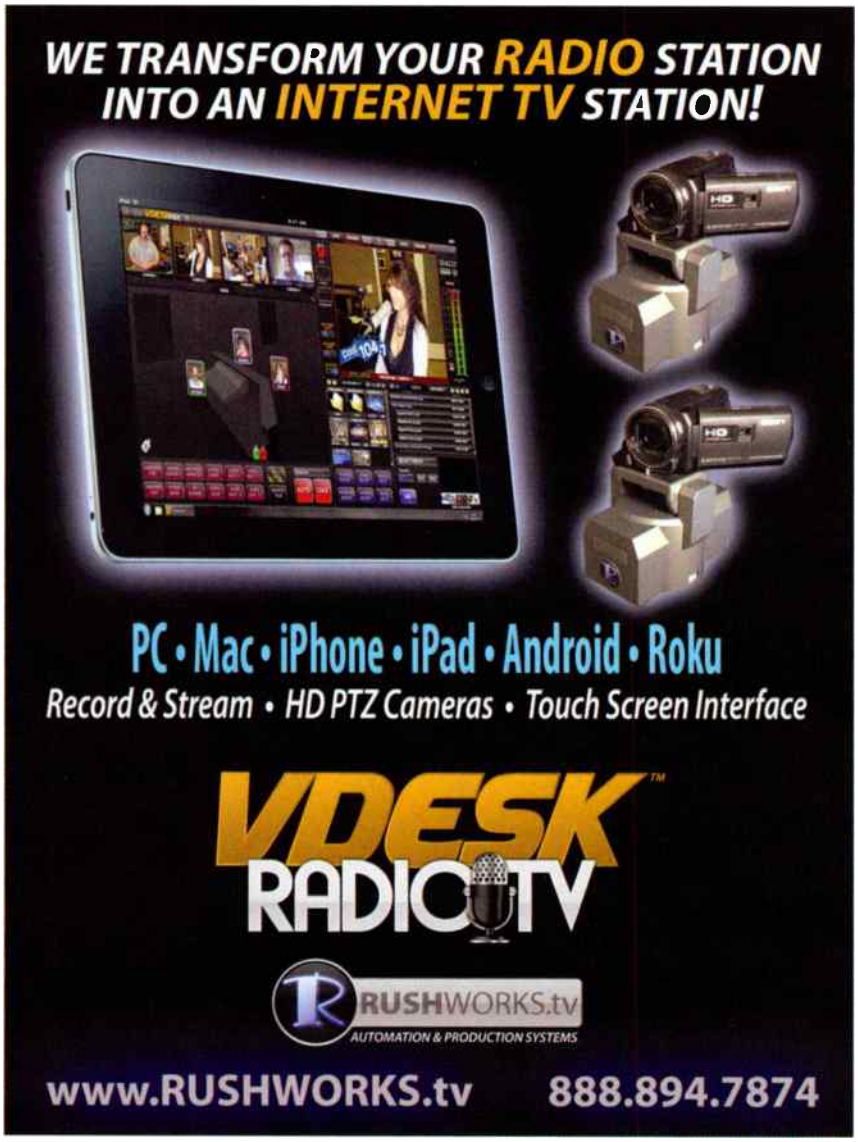
Clear Channel Satellite
DAWNco
DoubleRadius Inc.
ERI - Electronics Research Inc.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Jampro Antennas Inc.
Kathrein-Werke KG
Kintronic Labs Inc.
Label Italy Srl.
LBA Group
Mainesource Inc.
MediaTech USA
Myat Inc.
NicomUsa Inc.
Nova Electronics
P Cube Inc.
PrimaSat Communications Inc.
Progressive Concepts
Propagation Systems Inc. - PSI
Sabre Towers and Poles
SCMS Inc.
Sennheiser
Shively Labs
Transcom Corp.



World Radio History

RF Filters, Combiners

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Aldena Telecomunicazioni Srl.
Bext Inc.
Broadcast Devices Inc.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Clear Channel Satellite
Coaxial Dynamics
DAWNco
Elenos Srl.
ERI - Electronics Research Inc.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Independent Audio Inc.
Jampro Antennas Inc.
Kathrein-Werke KG
Kintronic Labs Inc.
Label Italy Srl.
LBA Group Inc.
Mainesource Inc.
Myat Inc.
NicomUsa Inc.
Nova Electronics
P Cube Inc.
Phasetek Inc.
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
Propagation Systems Inc. - PSI
R.V.R. USA
SCMS Inc.
Sennheiser
Shively Labs
T.Z. Sawyer Technical Consultants
Transcom Corp.
Transradio SenderSysteme Berlin

RF Monitoring

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AM Ground Systems
ANT Group Srl.
Barix Technology Inc.
Bay Country Broadcast Equipment
Belar Electronics Laboratory Inc.
Broadcast Devices Inc.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Burk Technology
BW Broadcast
Clear Channel Satellite
Coaxial Dynamics
Crown Broadcast IREC
Davicom, a division of Comlab Inc.
DAWNco
DaySequerra
Dayton Industrial
DEVA Broadcast Ltd.
FM Services
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Independent Audio Inc.
Inovonics
Isotrope, LLC
Jampro Antennas Inc.
Kaltman Creations LLC
LBA Group
LS telcom
Mainesource Inc.
Media Engineering
NicomUsa Inc.
P Cube Inc.
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
R.V.R. USA
Radio Engineering Associates
SCMS Inc.
Sennheiser
TFT Inc.
Transcom Corp.
WorldCast Systems

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BroadView Software
Efficio Solutions Inc.
Global Broadcast Supply Pte Ltd.
Grace Broadcast Sales
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Matrix Solutions
Myers
Quu Inc.
Radio Sales Cafe/
RadioSalesCafe.com
RadioAdStore.com
RadioTraffic.com
Stirlitz Media
Szabo Associates Inc.
UnattendedWeather.com

Satellite Equipment and Services

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Broadcast Tools Inc.
Broadcasters General Store
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Clear Channel Satellite
DAWNco
DVEO division of Computer
Modules Inc.
Global Broadcast Supply Pte Ltd.
International Datacasting Corp.
Mainesource Inc.
MediaTech USA
Nova Electronics
NPR Satellite Services
PrimaSat Communications Inc.
Video Mount Products

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Arctic Palm Technology Inc.
Arrakis Systems
ATC Labs
Axel Technology
Barix Technology
Broadcast Bionics
Broadcast Warehouse Ltd.
Broadcasters General Store
BroadView Software
DAVID Systems Inc.
Digital JukeBox
DRS Systemtechnik
ENCO Systems Inc.
Global Broadcast Supply Pte Ltd.
Inovonics
JT Communications
Marketron
Micropower Corp./Powergold
MusicMaster Scheduling
Myers
NeoGroupe
Netia Inc.
OMT Technologies
Ots Labs
Pristine Systems Corp.
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Software for Engineering and Mapping

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BSW
EDX Wireless
Elenos Srl.
Global Broadcast Supply Pte Ltd.
LS telcom
Quu Inc.
SoftWright LLC
V-Soft Communications

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Denon & Marantz Professional
Full Compass Systems Ltd.
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Heil Sound Ltd.
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Mainesource Inc.
Neumann USA
PreSonus Audio Electronics
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
SCMS Inc.
Sennheiser Electronic Corp.
Sierra Automated Systems & Engineering Corp.
Sonifex Ltd.
Studio Items Inc.

Streaming, Internet, Mobile

305 Broadcast
42NetMedia Ltd.
Abacast Inc.
AdsWizz
Arctic Palm Technology Inc.
ATC Labs
AVT Audio Video Technologies
Barix Technology Inc.
Blurt
Broadcast Electronics/Commotion
Broadcast Software International
Broadcast Tools Inc.
Broadcast Warehouse Ltd.
BSW
CircuitWerkes Inc.
Clear Channel Satellite
Comrex Corp.
DAVID Systems Inc.
DEVA Broadcast Ltd.
Digigram
Digital JukeBox
DVEO division of Computer Modules Inc.
Elenos Srl.
End to End Technologies
Fraunhofer IIS
Global Broadcast Supply Pte Ltd.
Haivision
iNetRadio
Inovonics
iviplanet
Jünger
Larcan USA Inc.
Mainesource Inc.
Marketron
Media Engineering
MusicamUSA
MusicMaster Scheduling
NeoGroupe
NewTek Inc.
Nova Electronics
Omnia Audio
OMT Technologies
Orban
Ots Labs
ProAudio.com
Progressive Concepts
Radionomy
Rushworks
Securenet Systems
Softron Media Services
Sonifex Ltd.
Sound4
StationPlaylist.com
Stirlitz Media
StreamGuys
Telos Systems, a Telos Alliance Company
Tieline USA
Vorsis
Wheatstone Corp.
Wowza Media Systems

Studio Support and Signaling

305 Broadcast
42NetMedia Ltd.
AEQ Broadcast International Inc.
Barix Technology
Broadcast Tools Inc.
Broadcasters General Store
BSW
Clear Channel Satellite
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Harris Broadcast
JT Communications
Mainesource Inc.
Media Engineering
MediaTech USA
NicomUsa Inc.
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
Qphonics
RAM Systems
Rohde & Schwarz USA Inc.
Sierra Automated Systems & Engineering Corp.
Sonifex Ltd.
Studio Items Inc.
Titus Technological Laboratories
Yellowtec USA

Subcarrier Equipment for FM

305 Broadcast
Bay Country Broadcast Equipment
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Dayton Industrial
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Inovonics
Mainesource Inc.

ROHN™ Products LLC

ex·pe·ri·ence
/ikˈspi(ə)rēəns/

Noun
Practical contact with and observation of facts or events.

" Safety is Job One", Consider Hiring A Professional To Install or Remove Your Tower

ROHN™ has been designing and manufacturing towers for more than 65 years.

That's experience! We have supplied thousands of towers to AM – FM – Television – Short & Medium Wave. Structures to 2,000'.

With that kind of legacy, chances are we have already built the tower you need. ROHN™ employs experienced personnel, SBE certified engineers, as well as PE's for all states. ROHN™ knows TOWERS!

•Highest Quality – Best Reliability – Best Support •Easy Installation – Complete Engineering Documentation
• Low Total Cost of Ownership – Best R.O.I. – Long Service Life •Recommended By Owners, Chief Engineers & Consultants Worldwide

On your next project, reduce risk, increase chances for project success, make your life easier, accept no substitutes, specify only genuine ROHN™ towers, direct from the source or through an authorized distributor! First class quality, competitive pricing, no charge for 6 decades worth of our experience!

The ROHN™ 2013 Catalog is available now in print or electronic format. To request your personal copy, send an email to: catalog@rohnnet.com. Please include your contact information and mailing address to let us know which format you prefer printed format or electronic format.

www.rohnnet.com - sales@rohnet.com - 309.S66.3000

World Radio History

Progressive Concepts
Sound4

System Integrators

305 Broadcast
42NetMedia Ltd.
AEQ Broadcast International Inc.
Axel Technology
DAWNco
Digital JukeBox
DoubleRadius Inc.
Elenos Srl.
Global Broadcast Supply Pte Ltd.
Graham Studios
Independent Audio Inc.
Isotrope LLC
JT Communications
Kathrein-Werke KG
Kintronic Labs Inc.
LBA Group Inc.
Lightner Electronics Inc.
LS telcom
Mainesource Inc.
Media Engineering
Nova Electronics
DMT Technologies
PrimaSat Communications Inc.
Quu Inc.
RAM Systems
SCMS Inc.
Transradio SenderSysteme Berlin
Yellowtec

Telco Interfaces

AEQ Broadcast International Inc.
Arctic Palm Technology Inc.
AVT Audio Video Technologies
Bay Country Broadcast Equipment
Broadcast Bionics
Broadcast Tools Inc.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
CircuitWerkes Inc.
Clear Channel Satellite
Comrex Corp.
DVED division of Computer Modules Inc.
Glensound
Global Broadcast Supply Pte Ltd.
JK Audio Inc.
Mainesource Inc.
Media Engineering
NeoGroupe
Dptelator-Stormin Protection Products Inc.
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
SCMS Inc.
Sonifex Ltd.
Telos Systems, a Telos Alliance Company
Yellowtec

Test and Measurement Equipment

305 Broadcast
Aldena Telecomunicazioni Srl.
Altronic Research Inc.
ANT Group Srl.
Audio Precision
Axel Technology
Belar Electronics Laboratory Inc.
Broadcast Devices Inc.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Coaxial Dynamics
Crown Broadcast IREC
DEVA Broadcast Ltd.
ESE
Fanfare Electronics Inc.
Fraunhofer IIS
Full Compass Systems Ltd.
Global Broadcast Supply Pte Ltd.
Gorman Redlich Mfg. Co.
Independent Audio Inc.
Inovonics
Jünger Audio
Kaltman Creations LLC
Kathrein-Werke KG
Kintronic Labs Inc.
LBA Group
LS telcom
Mainesource Inc.
Media Engineering
NicomUsa Inc.
NTI Americas
Pira.cz
Potomac Instruments
PrimaSat Communications Inc.
Pro-Comm Inc.
ProAudio.com
Progressive Concepts
Radio Engineering Associates
Rohde & Schwarz USA Inc.
RTW International Corp
SCMS Inc.
TFT Inc.
Titus Technological Laboratories
WorldCast Systems

Towers and Tower Services

305 Broadcast
Alafia Communications and Construction Inc.
Alan Dick Broadcast Ltd.
Aldena Telecomunicazioni Srl.
AM Ground Systems
Antenna ID Products
Bell Tower Corp.
Broadcasters General Store
Digigram
DoubleRadius Inc.
ERI - Electronics Research Inc.
Hughey & Phillips
Ice Krackers Inc.
Isotrope, LLC
Jampro Antennas Inc.
Kintronic Labs Inc.
LBA Group
LS telcom
MediaTech USA
Nova Electronics
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
Rohn Products
Sabre Towers and Poles
SCMS Inc.
T.Z. Sawyer Technical Consultants

Transmitters, Translators and Exciters

305 Broadcast
AM Ground Systems
Armstrong Transmitter Corp.
Bauer Transmitters Inc.
Bay Country Broadcast Equipment
Bext Inc.
Broadcast Electronics/Commotion
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
BW Broadcast
Clear Channel Satellite
Continental Electronics Corp.
Crown Broadcast IREC
Davicom, a division of Comlab Inc.
DB Elettronica Telecomunicazioni
DEVA Broadcast Ltd.
Doug Vernier, Telecommunications Consultants
Econco
Elenos Srl.
Fanfare Electronics Inc.
GBS-Giesler Broadcasting Supply
Global Broadcast Supply Pte Ltd.
Harris Broadcast
Independent Audio Inc.
JT Communications
Larcan USA Inc.
Mainesource Inc.
MediaTech USA
Nautel
NicomUsa Inc.
Nova Electronics
DMB America
PrimaSat Communications Inc.
ProAudio.com
Pro-Comm Inc.
Progressive Concepts
PTEK
R.V.R. USA
RIZ Transmitters Co.
Rohde & Schwarz USA Inc.
SCMS Inc.
Superior Broadcast
Transcom Corp.
Transradio SenderSysteme Berlin
WorldCast Systems

Wire, Cables, Connectors and Cable Management

305 Broadcast
AEQ Broadcast International Inc.
Aldena Telecomunicazioni Srl.
Broadcast Warehouse Ltd.
Broadcasters General Store
BSW
Clear Channel Satellite
DAWNco
FiberPlex Technologies LLC
Full Compass Systems Ltd.
GBS-Giesler Broadcasting Supply
Gepco International/General Cable
Global Broadcast Supply Pte Ltd.
Heil Sound Ltd.
Hughey & Phillips
Kathrein-Werke KG
LBA Group
Mainesource Inc.
Middle Atlantic Products
Neutrik USA Inc.
NicomUsa Inc.
Phasetek Inc.
PrimaSat Communications Inc.
ProAudio.com
Progressive Concepts
Radio Systems
RAM Systems
SCMS Inc.
Studio Items Inc.
Transcom Corp.
Yellowtec USA

BUTTON BROADCASTER PRO

by Digital JukeBox

- Radio Automation Software - Hot Buttons & Play Stack
- Music Scheduler plus As-Played Reports
- Drag & Drop audio cuts database with Main & Sub TABS
- Plays MP3, MP2, wav, wma, iTunes, ogg, m4a
- Built In Waveform Editor – Trim – Normalize - Tempo
- Built In Streamer [Shoutcast / Icecast, wma] + TTA metadata
- Includes Mic Mixer - Program EQ – VST Plug In Compatible
- Works with Win XP, Win7, Win 8 – 32 & 64 bit
- Optional: Web Training & Phone Support

Price: $595.00

Download a 30 day demo at www.digitaljukebox.com
or call Sales at Digital JukeBox 702-487-3336

World Radio History

Vendor & Product Directory

This section is an alphabetical listing of hundreds of industry suppliers for the U.S. radio broadcasting community. To find suppliers by product category, see the Supplier Cross Index section. Suppliers, did we miss you? Email *radioworld@nbmedia.com* so we can send you the data form next year.

1st Radio Technologies
P.O. Box 12069
Fort Pierce, FL 34979-2069
Richard Arsenault, Consultant
202-239-5550
Email: radioservices@ieee.org
Website: www.radio-broadcast-engineer.com
Products/Services: FM/AM/SW radio station services: Conceptual consulting, acquisitions and mergers, prepurchase inspections, FCC-type self-inspections, emergencies and disaster recovery, FCC applications, FM/AM coverage optimization, system design and construction, project management, HD/IBOC, computer networking, Internet streaming, equipment repair, directional antenna arrays, impedance measurements, detuning, research and studies

25-Seven Systems Inc., a Telos Alliance Co.
1241 Superior Ave. E
Cleveland, OH 44114-3281
Geoff Steadman, President
216-241-7225
Email: info@25-seven.com
Website: www-25-seven.com
Products/Services: 25-Seven specializes in audio timeshifting and delay technology. PDM, the only profanity delay with PD-Alert, emails captured audio whenever "dump" is pressed. The ATM is a timeshifter/time-compressor. Precision Delay helps stations time-align analog and HD signals and manage delays from fractions of seconds to over an hour.

2wcom Systems GmbH
Am Sophienhof 8
DE-24941 Flensburg
GERMANY
Barbara Petersen, Sales & Marketing
Email: sales@2wcom.com
Website: www.2wcom.com
T: +49-461-662830-15
Product Lines and/or Services: 2wcom Systems is an established worldwide developer/manufacturer of professional broadcast products in the fields of FM, RDS, DAB, DAB+, DVB-S, DVB-S2 and DVB-T.

3 Degrees Communications and Consulting LLC
4450 California Ave., PMB #76
Bakersfield, CA 93309
Rusty Burchfield, President
661-428-8888
Email: rusty@3degreescommunications.com
Products/Services: Broadcast engineering and consulting.

305 Broadcast
1315 NW 98th Ct., Suite 10
Miami, FL 33172
Alfonso Lopez, Marketing Coordinator
305-406-3560
Email: marketing@305broadcast.com
Website: www.305broadcast.com
Products/Services: Authorized dealer for some of the most recognized brands in the broadcast industry. Our experienced sales staff and tech support engineers are always ready to answer any questions.

42NetMedia Ltd.
Thököly út 105-107
HU-1145 Budapest
HUNGARY
Daniel Robert Pinter, Managing Director
+36-1-300-73-73
Email: support@42netmedia.com
Website: www.42netmedia.com
Products/Services: The 42Net radio automation system has been developed with features that are designed for radio broadcasters. Traffic management, news, editor, scheduling, single or multiple playout, rights management reporting, media asset management, new media and more are included in our comprehensive and cost-effective automation system.

A.T.S. USA Inc.
450 W. Main Street, Suite B-4
Gallatin, TN 37066
Nancy Belt, General Manager
615-451-4168
Email: nancy.belt@nagraaudio.com
Website: www.nagraaudio.com
Products/Services: Designs, manufactures and commercializes the range of Nagra professional digital audio recorders. Handheld and shoulder-hung solid-state recorders for radio journalism are available.

Abacast Inc.
13115 NE 4th Street, Suite 140
Vancouver, WA 98684
Michael Dalfonzo, Director of Sales
360-326-4798
Email: info@abacast.com
Website: www.abacast.com
Products/Services: Streaming, advertising and audience analytics services for the digital radio industry. Abacast's software and services build advertising revenue, listener loyalty and audiences.

Acoustics First Corp.
2247 Tomlyn Street
Richmond, VA 23230
804-342-2900
E-mail: info@acousticsfirst.com
Website: www.acousticsfirst.com
Products/Services: Acoustics First designs, manufactures and sells acoustical panels and soundproofing materials to control sound and eliminate noise.

AdsWizz Inc.
385 1st Ave.
San Mateo, CA 94401
Alexis Van de Wyer, President
Email: contact.us@adswizz.com
Website: www.adswizz.com

AEQ Broadcast International Inc.
4121 SW 47 Ave., Suite 1303
Fort Lauderdale, FL 33314
Peter Howarth, Management, Business Coordination
800-728-0536
Email: sales@aeqbroadcast.com
Website: www.aeqbroadcast.com
Products/Services: Communications equipment, audio mixers, routing systems and other solutions for the broadcasting industry. A well-known equipment and service provider at international sports events. Worldwide presence through distributor networks and offices in the U.S., Portugal and Spain.

AKG Acoustics U.S.
8500 Balboa Blvd.
Northridge, CA 91329
818-920- 3212
Email: akgusa@harman.com
Website: www.akg.com/usa
Products/Services: AKG, founded in 1947 in Vienna by Dr. Rudolf Goerike and Ernst Pless, has become one of the leading manufacturers of microphones, headphones, wireless microphone and in-ear monitoring equipment.

Alafia Communications and Construction Inc.
P.O. Box 2367
Riverview, FL 33568
Joe Wycoff, Sales
813-245-2762
Email: AlafiaComm@gmail.com
Products/Services: AM ground systems, FM antenna and transmission line R&R, tower inspection, tower plumb and tension, tower paint, LED tower lighting and transmitter building and site maintenance.

Alan Dick Broadcast Ltd.
Unit 1.2 Andoversford Industrial Estate
Cheltenham, Gloucestershire GL54 4LB
ENGLAND United Kingdom
Sonia Del Castillo, Sales & Marketing Administrator
+44-1242-820976
Email: sonia.delcastillo@alandickbroadcast.com
Website: www.alandickbroadcast.com
Products/Services: U.K.-based Alan Dick Broadcast (ADBL) is a long-established international manufacturer of antennas, combiners/filters, towers and broadcast infrastructure services for digital and analog video and audio systems. The company's portfolio starts at concept and runs through planning site development, station equipment, towers, antennas, full implementation and testing services.

Aldena Telecomunicazioni Srl.
Via per Vighignolo 6/8
IT-20019 Settimo Milanese MI
ITALY
Carlo Perotta, Sales
+39-02-90390461
Email: aldena@aldena.it
Website: www.aldena.it
Products/Services: Radio and television antenna systems, tower spines and mechanical structures, patch panels, filters and combiners, cables, connectors and accessories along with EMLAB RF design software. Also: antenna design, network planning, on-site support, commissioning, in-factory testing and training.

Alert FM
308 E. Pearl Street, Suite 202
Jackson, MS 39201-3419
Matt Straeb, Exec Vice President
601-709-4240
Email: mstraeb@gssnet.us
Website: www.alertfm.com
Products/Services: Alert FM/Alert Studio are text-/voice-based emergency notification systems used by state and local governments. Alert Studio can originate CAP-based messages through media broadcasting, FM data subcarriers, SMS, email, smartphone applications and social media. Alert FM uses FM radio stations to provide redundant emergency notification capability.

Altronic Research Inc.
P.O. Box 249
Yellville, AR 72687
Doug Starkey, Sales
870-449-4093
Email: dstarkey@altronic.com
Website: www.altronic.com
Products/Services: RF coaxial dummy loads, self-con-

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tained heat exchangers, water-cooled calorimetry systems available as standalone or built into dummy load.

AM Ground Systems
51 Ridge Lane
Lawrenceburg, TN 38464
Kevin Kidd, Owner
866-227-2346
Email: agscrwbgus2013@amgroundsystems.com
Website: www.amgroundsystems.com
Products/Services: Physical AM site services featuring AM ground system construction, inspection and repair. Specialties include MoM preparation, due diligence and theft remediation.

ANT Group Srl.
Via Giroli 76
IT-25085 Gavardo BS,
ITALY
Mario Duchi, R&D Director
+39-0365-34558
Email: info@antgroup.it
Website: www.antgroup.it
Products/Services: ANT Group manufactures telemetry equipment for the broadcasting industry. Site concentrators, network management software, test/measurement equipment, RF & QoS monitoring probes for FM and digital TV plus a large choice of signal interfacing probes.

Antenna ID Products
22 Bryan Wynd, Suite 2
Glenmoore, PA 19343
Tom Moyer, Sales
610-458-8418
Email: antennaid@msn.com
Website: www.antennaid.com
Products/Services: Custom and standard communication warning FCC required tower signs are available. Our specialty is custom tower signage. Email for a free PDF product and price list.

Arctic Palm Technology Inc.
11 Camelot Crescent
London, ON N5V 3L4
CANADA
Stu Buck, President
519-452-0002
Email: sales@arcticpalm.com
Website: www.arcticpalm.com

Products/Services: Arctic Palm specializes in software for broadcasting including Center Stage Live and its datacasting features along with paperless studio products for contest and prize scheduling, copy writing, call screening and automated file transfers.

Armstrong Transmitter Corp.
4835 N. Street Road
Marcellus, NY 13108
Kevin Smith, Sales Technician
315-673-1269
Email: kevin@armstrongtx.com
Website: armstrongtx.com
Products/Services: Armstrong Transmitter manufactures AM and FM broadcast exciters and transmitters, STL transmitters and receivers. The company manufactures NWS transmitters for the National Weather Service.

Arrakis Systems
6604 Powell Street
Loveland, CO 80538
Ben Palmer, Sales Manager
970-461-0730
Email: sales@arrakis-systems.com
Website: www.arrakis-systems.com
Products/Services: Engineering radio station equipment for over 30 years. Arrakis specializes in digital radio automation, broadcast consoles and studio furniture.

Ashly Audio
847 Holt Road
Webster, NY 14580-9103
John Sexton, VP Sales
800-828-6308
Email: sales@ashly.com
Website: www.ashly.com
Products/Services: Signal processing equipment and power amplification for use in the commercial sound contracting and professional audio markets.

ATC Labs
105 Lock Street, Suite 411
Newark, NJ 07103
Deepen Sinha, CEO
973-624-1116
Email: sinha@atc-labs.com
Website: www.atc-labs.com
Products/Services: Technology company focused in the field of codecs, processing and IP audio. The portfolio of products includes 24-band audio processors, IP codecs, streaming and distribution solutions.

Audio Precision
5750 SW Arctic Drive
Beaverton, OR 97005
Lucy Egging, Sales Coordinator
503-627-0832 x208
Email: lucye@ap.com
Website: www.ap.com
Products/Services: Since 1984, Audio Precision has offered audio analyzing instruments and applications to help engineers worldwide design, manufacture, verify and maintain all types of broadcast, pro sound, consumer and industrial audio products.

Audio-Technica U.S. Inc.
1221 Commerce Drive
Stow, OH 44224
David Marsh, Director of Sales and Marketing
330-686-2600
Email: mediaproduction@atus.com
Website: www.audio-technica.com
Products/Services: Established in 1962, Audio-Technica has long specialized in transducer technology. The company offers a wired and wireless microphones, headphones and accessories for every broadcast, live-sound, recording, and installed-sound need.

Audioarts Engineering
600 Industrial Drive
New Bern, NC 28562
Jay Tyler, Director of Sales
252-638-7000
Email: jay@wheatstone.com
Website: audioartsengineering.com
Products/Services: Located in New Bern, N.C., Audioarts Engineering (a subsidiary of Wheatstone Corp.) designs and manufactures professional broadcast audio equipment, including digital audio consoles and control surfaces, analog audio consoles and networked audio over IP systems.

Audion Laboratories Inc.
321 High School Road NE, STED-362
Bainbridge Island, WA 98110
Kimberly Brown, COO
206-842-5202
Email: info@audionlabs.com
Website: www.audionlabs.com
Products/Services: VoxPro — PC voice recording editing software found in control and newsrooms around the world. It features the VoxPro control panel (in USB or serial) plus on-screen hot-keys and multitrack capabilities.

AudioScience Inc.
42 Reads Way
New Castle, DE 19720
Richard Gross, President
302-324-5333
Email: rgross@audioscience.com
Website: www.audioscience.com
Products/Services: Advanced DSP-based digital audio peripherals for the OEM, broadcast, installed sound and entertainment markets. AudioScience products support industry standards such as PCI, PCI Express, MPEG audio compression, CobraNet, Livewire and AVnu AVB audio networking, and the Windows and Linux operating systems.

Auralex Acoustics Inc.
9955 Westpoint Drive, Suite 101
Indianapolis, IN 46256
Robb Wenner, Marketing Manager
800-959-3343
Email: marketing@auralex.com
Website: www.auralex.com
Products/Services: Founded in 1977 with a mission to provide top-performing acoustical treatment products at the best possible value. Thousands of Auralex customers have experienced improved acoustics, expert advice and customer service.

AVT Audio Video Technologies GmbH
Nordostpark 12
DE-90411 Nuernberg
GERMANY
Ulrike Lauterbach, Sales Manager
+49-911-5271-0
Email: info@avt-nbg.de
Website: www.avt-nbg.de
Products/Services: AVT manufactures IP, ISDN and E1 audio codecs as well as telephone hybrids/talkshow systems and DAB/DAB+ equipment. The Magic family of telephone hybrids are available for POTS, ISDN and VoIP for 2–16 caller lines with screening function, HD Voice (G.722), voice disguise and pretalk streaming (audio over LAN).

Axel Technology
Via Caduti di Sabbiuno 6/F
IT-40011 Anzola Emilia, Bologna

World Radio History

ITALY
+39-051-736-555
Email: sales@axeltechnology.com
Website: www.axeltechnology.com
Products/Services: Axel Technology has been a leading Italian manufacturer of professional radio and television equipment since 1996. Axel Technology's equipment and solutions are in over 120 nations thanks to a widespread sales network.

Axia Audio, a Telos Alliance Company
1241 Superior Ave. E.
Cleveland, OH 44114
Clark Novak, Marketing Manager
216-241-7225
Email: cnovak@AxiaAudio.com
Website: www.AxiaAudio.com
Products/Services: Ethernet-based professional IP-audio products for broadcast and commercial audio applications. Along with Element 2.0, iQ, Radius, DESQ and RAQ AoIP consoles for on-air, commercial production, audio workstations and personal studios, Axia products include intercoms, digital audio routers, DSP mixers and processors, and software for networked audio systems.

Balsys Wood Arts
930 Carter Road, #228-234
Winter Garden, FL 34787
407-654-7611
Email: furniture@balsys.com
Website: www.balsys.com
Products/Services: Balsys Wood Arts designs and fabricates custom broadcast furnishings.

Barix Technology
553 Hayward Ave N, Suite 240
Oakdale, MN 55128
Brenda Stadheim, Vice President
866-815-0866
Email: info@barix.com
Website: www.barix.com
Products/Services: Research and development of IP-based communication and control technology. Barix products are standalone and able to connect remotely worldwide over standard networks/Internet, offering solutions for commercial audio distribution, communication and automation applications.

Bauer Transmitters Inc.
10870 Pellicano Drive, Suite 5
El Paso, TX 79935
Paul Gregg, President
915-595-1048
Email: paul@bauertx.com
Website: www.bauertx.com
Products/Services: Service and parts for Bauer, Cetec and Elcom Bauer AM/FM transmitters. Sales of remanufactured 10 and 25 kW FM transmitters.

Bay Country Broadcast Equipment Inc.
7117 Olivia Road
Baltimore, MD 21220
Steve Scarborough, Owner
877-722-1031
Email: sales@baycountry.com
Website: http://www.baycountry.com
Products/Services: Sales of used radio broadcast equipment.

Belar Electronics Laboratory Inc.
P.O. Box 76
Devon, PA 19333
Arno Meyer, President
610-687-5550
Email: sales@belar.com
Website: www.belar.com
Products/Services: Manufacturer of modulation monitors used by radio and television stations to monitor important technical aspects of their broadcast signals. Belar also makes frequency monitors, specialized AM receiving antennas and other related equipment for the broadcast industry.

Bell Tower Corp.
6037 S Industrial Road
Chelsea, OK 74016
Bruce Burris, Sales Director
918-789-9020
Email: belltowersales@sbcglobal.net
Website: www.belltowercorp.com

Bext Inc.
1045 Tenth Ave.
San Diego, CA 92101
888-239-8462
Email: bext@bext.com
Website: www.bext.com
Products/Services: FM transmitters up to 35 kW; FM exciters or standalone transmitters from 30–5000 W; FM translators and boosters; STL systems; audio processors; FM antennas, directional/omnidirectional, vertically/horizontally/circularly polarized. The company also makes digital/analog TV transmitters from 4–40,000 watts, TV exciters, translators and boosters; RF filters and combiners.

Blurt
1111 Summer Street, 4th Floor
Stamford, CT 06905
Bob Bayne, Co-Founder
203-505-7620
Email: bob@blurtcast.com
Website: www.blurtcast.com
Products/Services: Blurt is the mobile app that allows users to record share and capture 60-second audio updates with an audience. Blurt increases the number of listeners participating in a program. Receive audience responses anytime, from anywhere. Connect with listeners before, during and after the show.

Broadcast Bionics
Brooklands Barn Rocky Lane
Haywards Heath, West Sussex RH16 4RR
ENGLAND United Kingdom
Kirsten Smith
+44-1444-473999
Email: sales@phonebox.com
Website: www.phonebox.com
Products/Services: Developer of PhoneBOX, PhoneBOXVX and PhoneBOX Solo talkshow software. As specialist broadcast software developers, custom projects are also undertaken. Broadcast Bionics is the U.K. distributors of Telos, Axia, Omnia, Lawo, WideOrbit Automation for Radio, Music Master, Sterlitz, 25-Seven and NewsBoss.

Broadcast Devices Inc.
3199 Albany Post Road, Suite 122
Buchanan, NY 10511
Bob Tarsio, President
914-737-5032
Email: bob@broadcast-devices.com
Website: www.broadcast-devices.com
Products/Services: BDI offers RF power measurement, RF switch controllers, antenna protection systems, remote monitoring systems in addition to a variety of digital and analog audio switching and distribution equipment. BDI also offers RF support equipment such as RF precision RF directional couplers.

Broadcast Electronics/Commotion
4100 North 24th Street
Quincy, IL 62305
Tom Beck, Director, Sales & RF Products
217-224-9600
Email: bdcast@bdcast.com
Website: www.bdcast.com
Products/Services: Broadcast Electronics offers studio automation and complete RF systems for radio. BE manufactures AM, FM and HD Radio transmitters and studio systems for managing audio programming and automating radio text as well as Web interactive tools for social networks and mobile devices. BE has been a global company since 1959.

Broadcast Software International
909 International Way
Springfield, OR 97477
Marie Summers, Sales Manager
888-274-8721
Email: sales@bsiusa.com
Website: www.bsiusa.com
Products/Services: BSI develops radio automation software, playout and multichannel logging/skimming solutions. Developed and supported in the United States.

Broadcast Tools Inc.
131 State Street
Sedro Woolley, WA 98284
Donald Winget, President
360-854-9559
Email: support@broadcasttools.com
Website: www.broadcasttools.com
Products/Services: Design and manufacture of affordable problem-solving tools for the radio and television broadcast industries. Analog and AES audio switchers/routers, Web-based and telephone-coupled remote control systems, studio audio accessories, satellite receiver interface adapters, DTMF encoder/decoders and logic interfaces.

Broadcast Warehouse Ltd.
Unit 27, IO Centre 57 Croydon Road
Croydon, Surrey CR0 4WQ
ENGLAND United Kingdom
Brendan Lofty, Sales
888-866-1671
Email: info@broadcastwarehouse.com
Website: www.broadcastwarehouse.com
Products/Services: Supplier of industry-leading radio and studio equipment brands. From LPFM to national broadcaster to tailor-made custom solutions, Broadcast Warehouse can design or supply everything.

Broadcasters General Store
2480 SE 52nd Street
Ocala, FL 34480
Jonathan Shute, Sales
352-622-7700
Email: jon@bgs.cc
Website: www.bgs.cc
Products/Services: Since 1979, BGS has supplied equipment to the broadcast industry ranging from legendary stations to the smallest facilities. BGS can handle a complete studio rebuild or just connectors. Over 500 manufacturers' product lines represented. Family owned and operated.

World Radio History

BroadView Software
207 Adelaide Street, East Suite 201
Toronto, ON M5A 1M8
CANADA
Jerry Katz, Regional Sales Director
416-778-0623
Email: sales@broadviewsoftware.com
Website: www.broadviewsoftware.com
Products/Services: Integrated sales, programming and traffic software solution for radio, TV and cable.

BSW
2237 South 19th Street
Tacoma, WA 98405
Tim Schwieger, President
800-426-8434
Email: sales@bswusa.com
Website: www.bswusa.com
Products/Services: As one of the world's premiere broadcast equipment suppliers, BSW (Broadcast Supply Worldwide) offers thousands of products at competitive prices. For over 38 years, broadcast and audio professionals around the globe turn to BSW for all their equipment needs.

Burk Technology
7 Beaver Brook Road
Littleton, MA 01460
Erin Zuik
978-486-0086
Email: sales@burk.com
Website: www.burk.com
Products/Services: Broadcast facility and transmitter control systems. The ARC Plus remote control offers Jet Active Flowcharts, roll-up alarms and a new smartphone interface. A cost-effective adapter now makes it possible to easily upgrade from legacy remote control systems.

Burli Software Inc.
4664 Lougheed Highway, Suite 264
Burnaby, BC V5C 5T5
CANADA
Ian Gunn, General Manager
604-684-3140
Email: sales@burli.com
Website: www.burli.com
Products/Services: Burli Software has been producing programs for broadcast journalists since 1996. Its flagship product is the Burli Newsroom System — often simply called "Burli" — a leading computer newsroom system for radio.

BW Broadcast
Unit 27, IO Centre 57a Croydon Road
London, Surrey CR04WQ
ENGLAND United Kingdom
Katie Murphy, Sales Supervisor
866-376-1612
Email: info@bwbroadcast.com
Website: www.bwbroadcast.com
Products/Services: BW Broadcast manufactures FM transmitters, audio processors, FM receivers, FM amplifiers and RDS encoders.

CGS Infographics Automation
232 S. Ashland Ave.
Lexington, KY 40502
Gene Hamm, Partner
859-299-4081
Email: gene@cgsautomation.com
Website: www.cgsautomation.com
Products/Services: Phone- and Web-automated school closing and high school sport score collection software.

CircuitWerkes Inc.
2805 NW 6th Street
Gainesville, FL 32609
Kyle Magrill, President
352-335-6555
Email: info@circuitwerkes.com
Website: www.circuitwerkes.com
Products/Services: CircuitWerkes manufactures problem-solving devices like tone encoders/decoder, Internet and dial-up remote controls, streaming audio encoders/decoders, telephone couplers and interfaces, relay boxes, silence sensors and custom-made products designed to the user's specs.

Clear Channel Satellite
76 Inverness Drive East, Suite B
Englewood, CO 80112
Tina Knisley, Sales Assistant
800-345-8728
Email: sales@clearchannelsatellite.com
Website: clearchannelsatellite.com
Products/Services: Turnkey solutions for syndicated music, sports and talk formats; an experienced and knowledgeable tech support department. CCS offers a variety of satellite platforms that meet the needs of both the network and affiliates.

Coaxial Dynamics
6800 Lake Abram Drive
Middleburg Hts., OH 44130
Sharon Gigliotti, Sales
440-243-1100
Email: sales@coaxial.com
Website: www.coaxial.com
Products/Services: Manufacturer of precision equipment for the measurement and termination of RF power since 1969. Products include RF loads, filters, wattmeters, line sections and plug-in elements for analog and digital applications.

Communications Technologies Inc.
P.O. Box 1130
Marlton, NJ 08053
Laura Mizrahi, Vice President
856-985-0077
Email: lmizrahi@commtechrf.com
Website: www.commtechrf.com
Products/Services: Broadcast engineering consultants specializing in AM, FM and TV RF systems design. Also: FCC application preparation, site selection expertise to optimize facility coverage and signal level predictions using contour and Longley-Rice methodologies.

COMREX

Comrex Corp.
19 Pine Road
Devens, MA 01434-5068
Chris Crump, Director of Sales & Marketing
978-784-1776
Email: info@comrex.com
Website: www.comrex.com
Products/Services: Since 1961, Comrex Corp. has been designing and manufacturing professional broadcast products used by radio and television broadcasters worldwide. Comrex specializes in audio and video codecs for remote broadcast transmission and STL applications as well as POTS and VoIP telephone interface products.
See our Profile in Excellence, page 4

Continental Electronics Corp.
4212 South Buckner Blvd.
Dallas, TX 75227
Michael Troje, Sales Manager
214-275-2319
Email: mtroje@contelec.com
Website: www.contelec.com
Products/Services: Manufacturer of radio frequency broadcast transmission equipment. Continental specializes in the design, development and manufacture of transmitter systems for the global market offering a range of products for high-power FM, HF, VHF, UHF LF and VLF applications.

CPI/Eimac Operations
607 Hansen Way
Palo Alto, CA 94304
Linda Di Lorenzo, Exhibits Manager
650-846-2900
Email: powergrid@cpii.com
Website: www.cpii.com
Products/Services: Design and manufacture of power grid tubes for broadcast, communications, radar, industrial heating, semiconductor processing, science and medical applications.

Crown Broadcast IREC
25166 Leer Drive
Elkhart, IN 46514
Kent Koselke, Sales Marketing Manager
866-262-8972
Email: kkoselke@irec1.com
Website: www.crownbroadcast.com
Products/Services: The company manufactures FM transmitters from 30 watts to 10 kW featuring a five-year warranty and optional built-in audio processor/stereo generator. It also manufactures FM translators with a built-in digital AM/FM receiver along with a standalone digital triple-AM/FM/WR tuner for translator use or monitoring with an optional modulation analyzer.

Dan Dugan Sound Design
290 Napoleon Street, Studio E
San Francisco, CA 94124
Dan Dugan, President
415-821-9776
Email: dan@dandugan.com
Website: www.dandugan.com
Products/Services: Dan Dugan invented the automatic mic mixer, which can be used at live events to handle multiple mics. Mixing controllers eliminate upcutting.

World Radio History

Davicom, a division of Comlab Inc.
2300, Leon-Harmel, Suite 220
Quebec, QC G1N 4L2
CANADA
Guy Fournier, Sales Manager
418-682-3380
Email: dvsales@davicom.com
Website: www.davicom.com
Products/Services: Intelligent site-monitoring systems to monitor and control transmitter sites and unattended studios remotely. Davicom units provide automation with decision-making features and commands.

DAVID Systems Inc.
P.O. Box 945
Warrenton, VA 20188
888-374-3040
Email: office@davidsystems.com
Website: www.davidsystems.com
Products/Services: DAVID Systems develops and supplies content production and distribution products for broadcasters and journalists. Open, customizable and scalable software for individual workflows and third-party integration.

DAWNco
3340 S. Lapeer Road
Orion, MI 48359
John Joslin, Dir. Sales & Marketing
248-391-9200
Email: salesdawnco.com
Website: www.dawnco.com
Products/Services: DAWNco provides satellite communication products, including satellite antennas, satellite receivers, LNBs, feedhorns, motors, controllers and component parts. DAWNco provides fiber optic communication products, including fiber links to pass audio/video, fiber to pass satellite signals, data fiber links, and fiber for cable TV broadband.

See our Profile in Excellence, page 8

DaySequerra
154 Cooper Road, Building 902
West Berlin, NJ 08091
856-719-9900
Email: info@daysequerra.com
Website: www.daysequerra.com
Products/Services: Audio products for radio, TV and Internet broadcasters. Technology applications include measuring and solving loudness issues in stereo, surround DTV and radio broadcasts using DTS Neural algorithms, transmitting multichannel surround audio over stereo infrastructure and digital radio and Internet stream audio processing and monitoring.

Dayton Industrial
2237 Industrial Blvd.
Sarasota, FL 34234-3119
Gary Williams, Sales
941-351-4454
Email: sales@daytonindustrial.com
Website: www.daytonindustrial.com
Products/Services: Designing and manufacturing quality radio receivers/monitors since 1982. Our receiver products include EAS receivers, AM, FM, FM Stereo, FM/SCA/RDS, NOAA Weather, Public Service and special purpose receivers. Manufactured in the USA.

DB Elettronica Telecomunicazioni S.P.A.
Riviera Maestri Del Lavoro 20/1
IT-35127 Padova, PD
ITALY
Elena Ditadi, Sales Manager
+39-049-8700588
Email: elena@dbbroadcast.com
Website: www.dbbroadcast.com
Products/Services: Solid-state technologies for analog and digital FM and TV broadcasting.

dcsTools.com
8494 Saratoga Lane
Eden Prairie, MN 55347
Rich Habedank, Owner
952-949-9450
Email: rich@c-rmedia.com
Website: www.dcstools.com
Products/Services: XStudio radio automation system supports live, local automation, satellite and a unique emergency mode of operation. Software tools for legacy DCS and Maestro automation systems, including voice-tracking, log editing, Web billboard, RDS and merging of music and traffic logs.

Denon & Marantz Professional
1100 Maplewood Drive
Itasca, IL 60143
630-741-0330
Email: marketing@d-mpro.com
Website: www.d-mpro.com
Products/Services: For 25 years, Denon Professional has enabled broadcast facilities to replace traditional devices with reliable media products. Marantz Professional supplies digital audio acquisition technology.

DEVA Broadcast Ltd.
65, Al.Stamboliyski St.
BG-8000 Burgas
BULGARIA
Todor Ivanov, General Manager
+359-56-820027
Email: office@devabroadcast.com
Website: www.devabroadcast.com
Products/Services: DEVA Broadcast is an international communications and high-technology company that develops and produces a range of RDS/RBDS encoders and decoders, modulation monitors, remote controls, off-air monitoring receivers and other systems for the broadcast industry.

DHD Deubner Hoffmann Digital GmbH
Haferkornstr. 5
DE-04129 Leipzig
GERMANY
+49-341-589702-0
Email: info@dhd-audio.de
Website: www.dhd-audio.com
Products/Services: DHD Deubner Hoffmann Digital GmbH was founded in 1996. It manufactures digital mixers, audio routers and other professional audio devices for radio and TV.

Dielectric Corp.
Raymond, ME 04071 USA
856-256-8190
Email: joe.zuba@dielectric.com
Website: www.dielectric.com
Products/Services: Dielectric products equip television and radio broadcasters with antenna and signal-transmission solutions that meet the needs of low- and high-power users serving rural audiences as well as major metropolitan markets. Dielectric offers the only broadcast systems designed and manufactured under one roof that include all components from transmitter output to tower top.

Digi-Key Corp.
701 Brooks Avenue South
Thief River Falls, MN 56701
800-344-4539
Website: www.digikey.com

Digigram
PointSource Audio
1300 Grant Ave., #202
Novato, CA 94945
James Lamb, Master Distributor
415-226-1122
Email: jlamb@point-sourceaudio.com
Website: www.digigram.com
Products/Services: Sound cards, IP audio codecs, video encoders & AV networking technologies. We offer building blocks for the avant-garde of broadcast and professional AV/IT systems.

Digital Alert Systems
100 Housel Ave.
Lyndonville, NY 14098
Bill Robertson, Vice President of Business Development
585-765-1155
Email: sales@digitalalertsystems.com
Website: www.digitalalertsystems.com
Products/Services: Digital Alert Systems provides single-box EAS/CAP products for broadcasters. A flexible IP-based architecture supporting a variety of third-party switching, graphics and automation systems streamlining connectivity and operations. Optional integrated AM/FM/WX receivers save valuable rack space and wiring clutter.

Digital JukeBox
3651 Lindell Road, D466
Las Vegas, NV 89103
Ron Paley, President and Sales Manager
702-487-3336
Email: sales@digitaljukebox.com
Website: www.digitaljukebox.com
Products/Services: Since 1995, Digital JukeBox has developed, installed and supported radio automation software that is designed to make radio station programming and operations efficient. Please visit our website for more information.

Digital Radio Mondiale (DRM)
c/o BBC Global News
Third Floor Brock House, 19 Langham Street
London W1A 1AA
ENGLAND United Kingdom
DRM Project Office, Project Office
+44-20-36142310
Email: projectoffice@drm.org
Website: www.drm.org
Products/Services: Digital Radio Mondiale's system covers large geographic areas, rural and local markets and when listeners are on the move. AM and FM. A local power local service option is also available.

Dixon Systems Inc.
580 Danforth Road
Toronto, ON M1K 1E3
CANADA
416-261-3773; *Fax:* 416-267-4474
Email: helpdesk@dixonsystems.com
Website: www.dixonsystems.com
Products/Services: Standard and custom broadcast equipment including mixers, interface amplifiers and switchers. We're best known for our NM-250 MKII newsroom mixer.

DoubleRadius Inc.
2022 Van Buren Ave.
Indian Trail, NC 28079

World Radio History

Jeff Holdenrid, Sales Engineer
704-927-6085
Email: jeffh@doubleradius.com
Website: www.doubleradius.com
Products/Services: IP connectivity to the transmission sites. IP microwave engineering, link designs and turnkey integration.

Doug Vernier, Telecommunications Consultants
401 Main St., Suite 213
Cedar Falls, IA 50613
Doug Vernier, Senior Engineer, President
319-266-8402
Email: consulting@v-soft.com
Website: www.v-soft.com/web/services.html
Products/Services: Broadcast engineering consulting, including the preparation of AM, FM and TV FCC applications, systems design, microwave analysis and PCN coordination.

DPA Microphones
1500 Kansas Ave., Suite 3A
Longmont, CO 80501
James Capparelle, Sales & Marketing
303-485-1025
Email: info-usa@dpamicrophones.com
Website: www.dpamicrophones.com
Products/Services: Danish manufacturer of condenser microphones for professionals. Manufacturing is done at its Denmark factory.

DRS Systemtechnik
Schaftrift 8
DE-27721 Ritterhude
GERMANY
Mark Weishaupt, CEO
Email: support@drs2006.com
Website: www.radioautomation.com
Products/Services: Since 2000, ORS Systemtechnik has made software like the ORS 2006 radio automation software. We offer software and streaming technologies.

DuTreil Lundin & Rackley Inc.
201 Fletcher Ave.
Sarasota, FL 34237
Ronald Rackley, Owner/Engineer
941-329-6000
Email: ron@dlr.com
Website: www.dlr.com
Products/Services: Consulting broadcast engineering firm that has been in business for more than 70 years. Its areas of expertise include all areas of AM, FM and television broadcasting.

DVEO division of Computer Modules Inc.
11409 West Bernardo Court
San Diego, CA 92127
Laszlo Zoltan, Vice President
858-613-1818
Email: laszlo@dveo.com
Website: www.dveo.com
Products/Services: IP video products. Our radio and audio products include our real-time, broadcast-quality, remotely manageable, multichannel audio transcoder, the Polycoder Audio 40ch/IP, which captures up to 40 simultaneous analog audio inputs and transcodes them to different audio formats.

Econco
1318 Commerce Ave.
Woodland, CA 95776
Debbie Storz, Sales
800-532-6626
Email: debbie.storz@cpii.com
Website: www.econco.com
Products/Services: Rebuilt transmitter tubes.

EDX Wireless
1400 Executive Pkwy, Suite 430
Eugene, OR 97401
Bob Akins, Marketing Manager
541-345-0019
Email: sales@edx.com
Website: www.edx.com
Products/Services: EDX SignalPro family of products for RF networks. Planning software helps engineers plan, deploy and optimize wireless networks from public safety, transportation, cellular and broadband to smart grid and beyond.

Efficio Solutions Inc.
520 South State St., Suite 244B
Westerville, OH 43081
David Einstein, Co-President
877-333-4246
Email: sales@efficiosolutions.com
Website: www.efficiosolutions.com
Products/Services: Integrated media CRM and sales management product that integrates sales intelligence and analytics via the cloud and syncs with media traffic systems. Offers CRM, account management, inventory and rate maximization and proposal building and connects the sales cycle from prospect to billing account.

Electro-Voice
Bosch Security Systems Inc.
12000 Portland Ave.
Burnsville, MN 55337
952-884-4051
Email: buv.orders@us.bosch.com
Website: www.electrovoice.com
Products/Services: Since 1927, Electro-Voice designs and manufactures microphones, digital signal processing, amplification and loudspeakers for the broadcast, retail, commercial, installed and concert sound markets. Our RE20 dynamic microphone with Variable-D technology is a true industry standard, trusted by broadcast professionals across the globe.

Electronics Research Inc. (ERI)
See ERI - Electronics Research Inc.

Elenos SRL
Via G.Amendola 9
IT-44028 Poggio Renatico FE
ITALY
Gianluca Busi, Marketing Manager
+39-0532-829965
Email: marketing@elenos.com
Website: www.elenos.com
Products/Services: 40,000 FM transmitters installed in more than 100 countries. Planar technology and compact design. Transmitters are scalable and rack-mountable, with powers up to 40 kW.

ENCO Systems Inc.
29444 Northwestern Highway
Southfield, MI 48034
Ken Frommert, Director – Marketing
248-827-4440
Email: sales@enco.com
Website: www.enco.com
Products/Services: ENCO makes audio playout and automation systems, as well as scheduling and distribution.

End to End Technologies
1259 N. 100 W.
American Fork, UT 84003
Sam Bushman, President
888-62-AUDIO
Email: sales@audiocompass.com
Website: www.audiocompass.com
Products/Services: End to End Technologies has been active in the radio broadcasting and consulting industry for more than 15 years. End to End developed the Audio Compass software products.

ERI - Electronics Research Inc.
7777 Gardner Road
Chandler, IN 47610
Joe Meleski, Director of Domestic Sales
812-925-6000
Email: sales@eriinc.com
Website: www.eriinc.com
Products/Services: ERI makes antennas, transmission line, filters, and towers for radio and television broadcasters. In addition to manufacturing components and accessories, ERI offers a suite of engineering and field services for planning, installation and maintenance of your broadcast facility.

ESE
142 Sierra Street
El Segundo, CA 90245
Bill Rajaniemi, Sales
310-322-2136
Email: ese@ese-web.com
Website: www.ese-web.com
Products/Services: Master clock systems, digital and analog displays. GPS, WWV, modem, crystal or line frequency based units. Standalone clocks and timers. Audio level interfaces and indicators.

Evans Engineering Solutions
216 Green Bay Road, Suite 105
Thiensville, WI 53092-1625
Ben Evans, President
262-518-0002
Email: ben@evansengsolutions.com
Website: www.evansengsolutions.com
Products/Services: Full-service broadcast engineers with more than 30 years of experience, specializing in FCC applications, design, field engineering, tower detuning, new station startups, upgrade, relocation and exposure studies, AM directional array tuning and proof, microwave planning and licensing, and on-site maintenance.

Eventide
One Alsan Way
Little Ferry, NJ 07643
Ray Maxwell, VP Sales & Marketing
201-641-1200; Fax: 201-641-1640
Email: rmaxwell@eventide.com
Website: www.eventide.com
Products/Services: Groundbreaking Harmonizer and broadcast delay technologies.

Factum
Universitetsvagen 14
SE-583 30 Linkoping, NA
SWEDEN
Patrik Olsson, CEO
+46-13368600
Email: info@factum.se
Website: www.factum.se
Products/Services: DAB/DAB+/DMB digital multimedia broadcast, NICAM digital stereo sound for television and Middleware for integration in DAB/DMB receivers.

Fanfare Electronics Inc.
10 Ayer Street

World Radio History

Williamsville, NY 14221
Marv Southcott, President
905-793-7953
Email: fanfareradio@gmail.com
Website: www.fanfarefm.com
Products/Services: Fanfare FM manufactures and distributes FM receivers for translator and monitor work. We also distribute a line of vertical, omnidirectional receiving and transmitting antennas with gain from unity to 9dB.

FiberPlex Technologies LLC
10840-412 Guilford Ave.
Annapolis Junction, MD 20701
Buddy Oliver, President
301-604-0100
Email: buddyo@fiberplex.com
Website: www.fiberplex.com
Products/Services: FiberPlex Technologies LLC makes fiber optic products. Its WDM-16 active wave division multiplexer and SFP media converters increase bandwidth capacity on existing fiber optic transport systems. Its LightViper audio snake system is used to transport audio over optical cable without the grounding and noise issues associated with copper cable.

FM Services
Wilkesboro, NC
336-667-7091
Website: towermonitor.com
Products/Services: TLM-1 Tower Light Monitor

Fraunhofer IIS
Am Wolfsmantel 33
DE-91058 Erlangen
GERMANY
Matthias Rose, Marcom
+49-9131-776-0
Email: matthias.rose@iis.fraunhofer.de
Website: www.iis.fraunhofer.de/amm
Products/Services: For more than 25 years, digital audio technology has been the principle focus of the Audio and Multimedia division. From the creation of MP3 and the co-development of AAC, Fraunhofer brings innovation in sound to reality, driving a new multimedia era. The audio codec implementations are licensed to more than 1,000 companies worldwide.

Full Compass Systems Ltd.
9770 Silicon Prairie Pkwy
Madison, WI 53593
Customer Service
800-356-5844
Email: customerservice@fullcompass.com
Website: www.fullcompass.com
Products/Services: Professional audio, video, A/V, lighting and musical instrument sales. Our goal is to provide the best value with exceptional customer service and we offer over 700 top brands. Full Compass is an authorized service center and parts distributor for most major manufacturers we carry.

GBS-Giesler Broadcasting Supply Inc.
P.O. Box 416
Alvin, TX 77512
Dan Giesler, Sales
800-634-8601
Email: dan@gbs-giesler.com
Website: www.gbs-giesler.com
Products/Services: Full-service radio equipment dealer.

Gemini Sound
280 Raritan Center Pkwy
Edison, NJ 08837
Alan Cabasso, President
732-346-0061
Email: sales@geminisound.com
Website: www.geminisound.com
Products/Services: Gemini has been established since 1974 and produces and ships pro audio and DJ products to more than 126 countries. Products consist of CD and media players, mixers, power amps, digital controllers, mobile and club speakers, digital recorder, wireless mic systems, studio monitors, headphones and turntables.

Genelec Inc.
7 Tech Circle
Natick, MA 01760
Will Eggleston, Marketing Director
508-652-0900
Email: genelec.usa@genelec.com
Website: www.genelecusa.com
Products/Services: Genelec has been designing and manufacturing active studio monitors for more than 35 years, including Smart Active Monitors.

Gepco International/General Cable
1770 Birchwood Ave.
Des Plaines, IL 60018
800-966-0069
Email: gepco@gepco.com
Website: www.gepco.com
Products/Services: Gepco International, a brand of General Cable, develops and manufactures cable and connectivity products for the broadcast and professional A/V markets. Gepco brand, SheerWire and other General Cable products.

Glensound
6 Brooks Place
Maidstone, Kent ME14 1HE
ENGLAND United Kingdom
Marc Wilson, Sales & Marketing Manager
+44-1622-753662
Email: sales@glensound.co.uk
Website: www.glensound.co.uk
Products/Services: U.K. designer and manufacturer of broadcast audio products including commentary/announcer systems. Broadcasters' mobile phones, telephone hybrids, four-wire systems, audio mixers, codecs, digital converters, digital snake, audio monitoring, and headphone and microphone amplifiers. Specialists in custom product and system design with most of the range starting as a bespoke project.

Global Broadcast Supply Pte Ltd.
159 Sin Ming Road #04-07 (Lobby 2)
Amtech Building
Singapore 575625
SINGAPORE
Y.C. Tan, Director
+65-6454-9233
Email: sales@broadcastsupply.com.sg
Website: www.gbsonline.com.sg
Products/Services: With more than 15 years of experience in Broadcast technologies, GBS provides technical consultancy, system integration, channel distribution and e-commerce services. GBS has finished many system integration projects in the Asia Pacific region and has offices in Singapore, Thailand, Indonesia and Hong Kong.

Gorman-Redlich Manufacturing Co.
257 W. Union Street
Athens, OH 45701
James Gorman
740-593-3150
Email: jimg@gorman-redlich.com
Website: www.gorman-redlich.com
Products/Services: More than 35 years of experience in the emergency alerting industry. We manufacture EAS encoder-decoders with and without a built-in character generator. The CAP-DEC1 decoder unit is a standalone unit that will translate received CAP V1.2 alerts into EAS headers. Other equipment: NOAA weather receivers and digital antenna monitors.

Grace Broadcast Sales
225 SW Skyline Drive
Pullman, WA 99163
Rod Schwartz, Owner
509-332-8423
Email: ros@gracebroadcast.com
Website: gracebroadcast.com
Products/Services: Grace Broadcast Sales provides :30- and :60-second features for holidays, seasonal celebrations and special events, and for specific retail and professional business categories, designed for customization by the station for its advertising clients and prospects. Free demos and sales presentations for making risk-free presentations to prospective sponsors are available at *gracebroadcast.com/products.htm*

Graham Brock Inc.
5971B New Jesup Highway
Brunswick, GA 31523
Stu Graham, President
912-638-8028
Email: rsg@grahambrock.com
Website: www.grahambrock.com
Products/Services: Graham Brock, a full-service consulting firm, provides technical expertise to the broadcast industry across the continental U.S., Hawaii, Alaska, Puerto Rico, American Samoa, and the Virgin Islands. GBI provides AM and FM services from the allocation and application processes to the implementation of the station.

Graham Studios
1805 E Lincoln Ave.
Fort Collins, CO 80524
Rod Graham, Founder
970-225-1956
Email: rod@graham-studios.com
Website: www.graham-studios.com
Products/Services: Graham Studios designs and manufactures two lines of broadcast studio furniture, as well as custom applications. National and international. Three decades of experience.

World Radio History

Haivision
13975 Polo Trail Drive
Lake Forest, IL 60045
847-362-6800
Email: ussales@haivision.com
Website: www.haivision.com
Products/Services: Haivision delivers technology for streaming, recording, managing and distributing secure IP video and interactive media within the enterprise, education, medical/healthcare and federal/military markets. With a global sales and support organization, Haivision distributes its products through value-added resellers, system integrators, distributors and OEMs worldwide.

Harris Broadcast
5300 Kings Island Drive, Suite 101
Mason, OH 45040
Brian Clifford, Marketing Communications Manager
513-459-3714
Email: brian.clifford@harrisbroadcast.com
Website: www.harrisbroadcast.com
Products/Services: Harris Broadcast develops new technologies and end-to-end solutions, while establishing industry standard protocols.

Hatfield & Dawson Consulting Engineers
9500 Greenwood Avenue North
Seattle, WA 98103
Ben Dawson, President
206-783-9151
Email: hatdaw@hatdaw.com
Website: www.hatdaw.com
Products/Services: Engineering consultancy specializing in applied radio physics for broadcasting and other telecommunications uses. The firm performs antenna and propagation analysis and design, facility design and specification, licensing, testing, measurement and commissioning of RF systems from VLF to microwave at all power levels.

Heil Sound Ltd.
5800 North Illinois
Fairview Heights, IL 62208
Bob Heil, CEO
618-257-3000
Email: info@heilsound.com
Website: www.heilsound.com
Products/Services: Manufacturer of high-performance dynamic microphones. Heil Sound products fit broadcast, live sound and recorded sound. Company founder Bob Heil is an innovator in both concert and broadcast sound reproduction.

Henry Engineering
P.O. Box 3796
Seal Beach, CA 90740
Hank Landsberg, CEO
562-493-3589
Email: info@henryeng.com
Website: www.henryeng.com
Products/Services: We build products for digital and analog audio interface, USB audio, distribution, mixing, headphones and mic control, tally light and logic control. The new Talent Pod deals with headphone mixing and mic control. The "Sports Pod" is coming soon.

Hughey & Phillips
240 W Twain Ave.
Urbana, OH 43078
Kay Nance, Sales
937-652-3500
Email: knance@hugheyandphillips.com
Website: www.hugheyandphillips.com
Products/Services: Designs, engineers and manufactures aircraft warning lighting technology of low, medium and high intensity, which provide illumination for radio, television and communication towers, and wind turbines and buildings, for aerial navigation.

Ice Krackers Inc.
273 Circle Drive
Springfield, IL 62703
Jim Newbanks, President
800-747-8921
Email: icekrackers@springnet1.com
Website: icekrackers.com
Products/Services: The Ice Kracker is used on towers to protect the anchoring hardware and dampeners from damage due to ice slides coming down the guy wires. The Ice Kracker is galvanized and comes with mounting hardware. The Ice Krackers are installed just three feet above hardware being protected.

Independent Audio Inc.
43 Deerfield Road
Portland, ME 04101-1805
Fraser Jones, President
207-773-2424
Email: fraser@independentaudio.com
Website: www.independentaudio.com
Products/Services: Audessence designs, manufactures and sells FM and AM digital audio broadcast products. ALPS level controllers provide AGC over +/-20 dB range plus "brick-wall" limiting. Four models offer varying functionality and price. FM ProCoder range offers superb digital processing, advanced stereo encoding and fully featured RDS/RBDS. Four RDS models are available including TMC + IP Option.

iNetRadio
1111 Summer Street
Stamford, CT 06905
Clark Burgard, Co-Founder
203-622-0405
Email: clark@Internetwork.com
Website: www.inetradio.com
Products/Services: iNetRadio is Internet radio, combining a wide selection of popular music channels with access to news, weather, sports, talk and other online programs.

Inovonics
5805 Hwy 9
Felton, CA 95018
Lukas Hurwitz, Sales & Marketing Manager
831-458-0552
Email: sales@inovonicsbroadcast.com
Website: www.inovonicsbroadcast.com
Products/Services: Inovonics manufactures products for the broadcast professional. From a range of audio processing products and RDS/RBDS encoders to test/monitoring equipment, Inovonics explores the latest developments in broadcast technology and practices.
See our Profile in Excellence, page 6

International Datacasting Corp.
50 Frank Nighbor
Kanata, ON K2V 1B9
CANADA
613-596-4120
Email: sales@datacast.com
Website: www.datacast.com
Products/Services: IDC's second generation of its STAR Pro Audio Solution allows operators to insert stored audio files into live or recorded programming, send selected ads to specific regions or receivers, and play the right content at the best time with its time-shifting functionality. It uses up to 70 percent less satellite bandwidth compared to other systems. Other cost savings can be realized through shared hub support.

Isotrope LLC
503 Main Street
Medfield, MA 02052
Steve Riggs, Chief Operating Officer
508-359-8833
Email: contact@isotrope.im
Website: www.isotrope.im
Products/Services: Experts in system integration, RF measurement, interference remediation, RF safety, signal propagation, HD Radio implementation and plant design. Our RFSigns.com division provides ANSI/OSHA-compliant RF safety signs.

iviplanet
P.O. Box 667612
Miami, FL 33166
Antonio Calderon, Business Development
866-706-6247
Email: info@iviplanet.com
Website: www.iviplanet.com
Products/Services: iviplanet provides live and on-demand streaming service technology, as well as the bandwidth connectivity, security and admin interface necessary to manage the streaming service. With data centers to in Latin America, the United States and Europe.

Jampro Antennas Inc.
6340 Sky Creek Drive
Sacramento, CA 95828
Sonia Del Castillo, Sales/Marketing Administrator
916-383-1177

IDC is a global leader in digital content distribution for the world's premiere broadcasters in radio, television, data and digital cinema. STAR Pro Audio Solution provides radio networks with localized ad insertion, helping them to boost revenue and lower operating costs. IDC's solutions serve over 30,000 radio downlinks worldwide.

International Datacasting Corporation
50 Frank Nighbor Place
Kanata, Ontario K2V 1B9
Ph: 613-596-4120 • Fax: 613-596-4863
sales@datacast.com
www.datacast.com

World Radio History

Email: sonia@jampro.com
Website: www.jampro.com
Products/Services: Oldest broadcast antenna company in North America with more than 50 years of experience, Jampro provides broadcast antennas and RF systems worldwide. Products include FM, UHF and VHF antennas, combiners, filters, patch panels, towers, and rigid transmission line and components.

JK Audio Inc.
1311 E 6th Street
Sandwich, IL 60548
815-786-2929
Email: info@jkaudio.com
Website: www.jkaudio.com
Products/Services: Audio interfaces for radio and TV broadcast professionals. Analog and digital hybrids for interviews and talk shows, RemoteMix series field mixers for remote broadcasts and interviews, and interface tools.

JT Communications
579 NE 44th Ave.
Ocala, FL 34470-1421
Jim Trapani, Owner
352-236-0744
Email: sales@jtcomms.com
Website: www.jtcomms.com
Products/Services: Manufacturer and service provider for broadcast and communications equipment. Broadcast automation software (Automatronix) producer. Customized electronic products/services from concept, design and manufacturing-ready product. Broadcast equipment repair services, engineering services, contract labor services.

Jünger Audio USA
2100 Walsh Ave.
Santa Clara, CA 95050
Anthony Wilkins, Sales Manager
408-330-9215
Email: anthony.wilkins@junger-audio.com
Website: junger-audio.com
Products/Services: Since 1990, Berlin-based Jünger Audio has been designing and manufacturing audio dynamic processors. We offer a range of audio processing solutions (in two, four and eight channels, or modular frame versions) used by the world's top radio and TV broadcasters, recording studios and postproduction facilities.

Kaltman Creations LLC
651 Amberton Crossing
Suwanee, GA 30024
678-714-2000
Email: sales@kaltmancreationsllc.com
Website: www.kaltmancreationsllc.com
Products/Services: Kaltman Creations LLC features affordable RF field spectrum analyzers for industrial, commercial & military — 1 MHz to 9.4 GHz, EMC spectrum analyzers — 1 Hz to 30 MHz, and calibrated antennas and probes.

Kantar Media SRDS
1700 E Higgins Road, 5th Floor
Des Plaines, IL 60018
Client Services
800-851-7737 x2
Email: contact@srds.com
Website: srds.com
Products/Services: SRDS.com is an online multimedia planning platform that connects media buyers with media sellers.

Kathrein-Werke KG
Anton-Kathrein-Strasse 1-3
DE-83022 Rosenheim
GERMANY
Georg Klauser, Dipl.-Ing.
+49-8031-184958
Email: broadcast@kathrein.de
Website: www.kathrein.de
Products/Services: Kathrein-Werke KG is an international enterprise active in antenna and communications technology. For more than 90 years the group of companies has been developing, producing and marketing antenna systems and signal processing products.

Kintronic Labs Inc.
P.O. Box 845
Bristol, TN 37621-0845
Tom King, President
423-878-3141
Email: ktl@kintronic.com
Website: www.kintronic.com
Products/Services: Kintronic Labs designs, fabricates, installs and commissions AM/medium-wave HD or DRM terrestrial radio broadcast transmission systems. In addition Kintronics offers innovative RF solutions for telecommunications, industrial and other applications.

Label Italy Srl.
Via S. Allende, 59
IT-41122 Modena MO
ITALY
Davide Ghelli, President
+39-059-362993
Email: info@labelitaly.com
Website: www.labelitaly.com
Products/Services: We produce FM broadband antennas (dipole, yagi, panel, circular); VHF-UHF-SHF antennas (corner, log yagi from 200 MHz to 2.5 GHz); FM star combiners; FM double bridge diplexers; FM double coaxial cavities; power splitters; cables, connectors and accessories.

Larcan USA Inc.
1218 Commerce Ct., Suite B
Lafayette, CO 80026
Paul Phillips, Sales
303-665-8000
Email: pphillips@larcan.com
Website: www.larcan.com
Products/Services: Larcan has been in the radio and TV broadcast transmitter business for 60 years. Our FM line includes LPFM from 25 to 250 watts along with FM translators in the same power range. We are also manufacture FM HD Radio translators.

Lawo North America Corp.
1361 Huntingwood Dr., #16
Toronto, ON M1S 3J1
CANADA
Herbert Lemcke, President
416-292-0078
Email: herbert.lemcke@lawo.ca
Website: www.lawo.ca
Products/Services: Lawo, headquartered in Rastatt, Germany, designs and manufactures audio and video technology for radio and TV broadcast production, postproduction, as well as live performance and theatrical applications. Products include digital audio mixing consoles, routers, video processing tools, IP-based video and audio transport solutions.

LBA Group Inc.
3400 Tupper Drive
Greenville, NC 27834
252-757-0279
Email: Lbagrp@lbagroup.com
Website: www.lbagroup.com
Products/Services: LBA Group Inc. has been providing RF asset and RF risk management solutions since 1963. LBA offers a technology consultancy providing AM compliance and other RF related study services. LBA manufactures and integrates RF systems, lightning protection, and EMC equipment; and provides on-site and online professional safety training.

Lightner Electronics Inc.
1771 Beaver Dam Road
Claysburg, PA 16625
Matthew Lightner, President
814-239-8323
Email: sales@lightnerelectronics.com
Website: www.lightnerelectronics.com
Products/Services: Lightner Electronics Inc. is a full-service broadcast engineering, audio/visual integration and equipment supply firm providing design, repair, fabrication, sales, and installation. We offer professional bench repair of all types of broadcast equipment. We also offer an online store that specializes in refurbished broadcast equipment.

Linear Acoustic, a Telos Alliance Company
108 Foxshire Drive
Lancaster, PA 17601
Jim Kuzman, Marketing Manager
717-735-3611
Email: jim@linearacoustic.com
Website: www.linearacoustic.com
Products/Services: Linear Acoustic specializes in multichannel loudness control, 5.1 channel upmixing, and metering, focusing on helping broadcasters deliver a satisfying audio experience that complies with regulations and recommendations like CALM and EBU R-128 without compromising audio quality.

Logitek Electronic Systems
5622 Edgemoor Drive
Houston, TX 77081
Frank Grundstein, Director of Sales
713.664.4470
Email: info@logitekaudio.com
Website: www.logitekaudio.com
Products/Services: Logitek manufactures digital audio routing and audio console systems for on-air, production and news. Products include the Jetstream AoIP audio networking platform, the Audio Engine TDM platform and control surfaces and accessory products.

L-S-B Broadcast Technologies GmbH
Konrad-Adenauer-Ring 13-15
DE-65187 Wiesbaden
GERMANY
www.l-s-b.de
Contact: Andreas Höflich, Public Relations
+49-611-262390-0
Email: webinfo@l-s-b.de

LS telcom
Im Gewerbegebiet 31-33
DE-77839 Lichtenau
GERMANY
Sabrina Scheck, Manager Marketing Services
+49-7227-9535-600
Email: info@Lstelcom.com
Website: www.Lstelcom.com
Products/Services: Software solutions and professional services for frequency management, monitoring and radio network planning; SW planning tools; analog TV, DTT (DVB-T/T2/Lite, ISDB-T, ATSC, DTMB), Mobile TV, T-DAB, DRM+, HF, LF/MF, FM, fixed links. Services include consulting, engineering, system integration:

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network planning, training, container installation, commissioning and UAV/heli-measurements.

Mainesource Inc.
P.O. Box 1312
Richmond, IN 47375
Chuck Maines, President
866-282-9061
Email: sales@mainesource.us
Website: www.mainesource.us
Products/Services: Broadcast equipment sales and marketing company focused on providing equipment that provides high value/ROI for FM radio stations worldwide. Everything needed for commercial, educational, noncom, LPFM, translator and booster stations. More than 30 years serving the broadcasting industry.

Marantz Professional
D&M Professional
1100 Maplewood Drive
Itasca, IL 60143
Karl Gustafson, Marketing Director
630-741-0330
Email: marketing@d-mpro.com
Website: www.d-mpro.com
Products/Services: For many years, Marantz Professional has provided the professional solution for audio acquisition. As familiar in the broadcast, commercial installation and corporate markets as it is in education, legal and professional audio, Marantz Professional continues to supply its customers with the latest in high-quality digital audio acquisition technology.

Marketron
101 Empty Saddle Trail
Hailey, ID 83333
800-476-7226
Website: www.marketron.com/
Products/Services: Business software solutions and services. Mediascape Platform drives innovation to create new growth opportunities that produce value for clients. With over 7,000 media organizations served, Marketron solutions manage an estimated $15 billion in annual advertising revenue in the U.S.

Matrix Solutions
901 Pennsylvania Ave.
Pittsburgh, PA 15233
Brenda Hetrick, Director of Marketing
412-697-3000
Email: sales@matrixformedia.com
Website: www.matrixformedia.com
Products/Services: Matrix Solutions offers the leading media-specific CRM, data, and reporting platform for media outlets and network sales organizations across North America.

MAYAH Communications GmbH
Am Söldnermoos 17
D-85399 Hallbergmoos
GERMANY
Email: info@mayah.com

MB Soft
Via XX Settembre 33
IT-18038 San Remo IM
ITALY
Email: info@mbsoft.biz
Website: www.mbradio.it/en
Products/Services: MB Studio is a powerful automation with all the features that you need to run your own radio station. It will play audio with any sound card. Support any file type, allow automatic voice outro, voice track, voice intro, live show from remote. Try now MB Studio and MB Recaster.

Media Engineering
Broadcasting Systems & Applications
CH-8104 Weiningen
SWITZERLAND
Markus Stocker, CEO/President
+41-44-750-6688
Email: mail@mediaengineering.com
Website: www.mediaengineering.com
Products/Services: Project engineering services for radio broadcasting and the related electronics industry; hardware and software solutions in the professional audio field.

MediaTech USA
133 Hightower Ct.
Mooresville, NC 28117
Grayson Pierce, Owner
704-799-2245
Email: sgpierce@mediatechusa.com
Website: www.mediatechusa.com

Merging Technologies
Le Verney 4
CH-1070 Puidoux-Chexbres
SWITZERLAND
Chris Hollebone, Sales Manager
+41-21-946-0444
Email: chollebone@merging.com
Website: www.merging.com
Products/Services: Merging Technologies manufactures Pyramix and Ovation workstations for recording, editing and on-air playback. The Horus networked audio converter is available with both products or as standalone. Native or MassCore versions are available with both products.

Michael Patton & Associates
12331 Industriplex Blvd., Suite C
Baton Rouge, LA 70809
225-752-4189
Email: mike@michaelpatton.com
Website: www.michaelpatton.com
Products/Services: A radio broadcasting systems integrator, providing facility design, construction, contracting, rebuilding and maintenance services to AM & FM stations all over America and abroad.

Micronetixx Communications
1 Gendron Drive
Lewiston, ME 04240
Bill Ammons, Director of Marketing and Sales
207-786-2000
Email: bammons@micronetixx.com
Website: www.micronetixxantennas.com
Products/Services: We build FM (band II) antennas. Featured are FML omnidirectional C/P antenna, and the LPF8 FM log-periodic antenna, with 50 or 75 ohm versions available.

Micropower Corp./Powergold
8500 W. Markham Street, Suite 201
Little Rock, AR 72205-2455
Brenda Burt, Sales Manager
501 821-1123
Email: sales@powergold.com
Website: www.powergold.com
Products/Services: Combining the art and science of music scheduling, Powergold brings users the intelligent technology they need to turn music scheduling tasks into an art form. Visit www.powergold12.com to experience the latest features of Powergold12 and discover how to program a station's unique sound signature quickly and creatively.

Middle Atlantic Products
300 Fairfield Road
Fairfield, NJ 07004
Rebeca Villareale, PR Manager
973-839-1011
Email: info@middleatlantic.com
Website: www.middleatlantic.com
Products/Services: Part of the commercial AV division of Legrand, North America. Support and protection products to mount integrated AV systems in residential, commercial, broadcast and security applications.

Modulation Sciences Inc.
14K World's Fair Drive
Somerset, NJ 08873
732-302-3090
Email: info@modsci.com
Website: www.modsci.com

Moseley Associates Inc.
82 Coromar Drive
Santa Barbara, CA 93117
Bill Gould, Broadcast Sales Engineer
805-968-9621
Email: sales@moseleysb.com
Website: www.moseleybroadcast.com
Products/Services: Manufacturer of digital aural microwave links. Moseley brings a transparent studio-to-transmitter link to the crowded, hostile RF environment; it now has over 15,000 microwave systems in service around the world.

Mouser Electronics
1000 N Main Street
Mansfield, TX 76063
800-346-6873; *Fax:* 817-804-3803
E-mail: sales@mouser.com
Website: www.mouser.com

Mullaney Engineering Inc.
9049 Shady Grove Court
Gaithersburg, MD 20877
John Mullaney, President
301-921-0115
Email: mullaney@mullengr.com
Website: www.mullengr.com
Products/Services: Mullaney Engineering Inc. and its predecessor firms have been providing consulting engineering services to the radio and television industry

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since 1948. We provide services in: AM (including Folded Unipole designs), FM, TV, DTV, LPFM, LPTV and environmental radiation analysis.

MusicamUSA
670 N Beers Street, Bldg 4
Holmdel, NJ 07733
Chris Tobin, Solutionist
732-739-5600
Email: info@musicamusa.com
Website: www.musicamusa.com
Products/Services: MusicamUSA provides solutions for broadcast audio/video/ICT/T1 E1 contribution, distribution and OB events to name a few applications. Since 1995 CCS MusicamUSA has introduced ISDN, POTS and IP solutions for radio, TV and new media markets. MusicamUSA has over 20,000 codecs in use worldwide.

MusicMaster Scheduling
330 S. Executive Drive, Suite 205
Brookfield, WI 53005
Joe Knapp, President
262-717-2220
Email: joe.knapp@a-ware.com
Website: www.musicmaster.com

Myat Inc.
360 Franklin Turnpike
Mahwah, NJ 07430
Dennis Heymans, Sales
201-684-0100
Email: dheymans@myat.com
Website: www.myat.com
Products/Services: Filters, switches, combiners, transmission line, systems and components.

Myers
19R Hawley Street
Northampton, MA 01060
John Shoemaker, Director, New Business Development
413-341-5459
Email: jshoemaker@myersinfosys.com
Website: www.myersinfosys.com
Products/Services: Myers has been developing broadcast management software since 1989. The company provides technology and services for television, radio and other digital media providers designed to improve every aspect of their operations, from contracting to invoicing, media management to scheduling, and from trafficking to reconciliation.

Nautel
10089 Peggy's Cove Rd.
Hackett's Cove, NS B3Z 3J4
CANADA
902-823-5131
Email: sales@nautel.com
Website: nautel.com
Products/Services: Nautel offers a broad portfolio of digital/analog solid-state transmission platforms including 1 kW to 2000 kW MW/LW transmitters, 300 W to 88 kW FM transmitters, and 150 W to 500 W digital UHF TV transmitters. Over 12,000 deployments in 177 countries rely on our control and monitoring, designs and customer support.

See story, page 45

NeoGroupe
14 rue des selliers
FR-94440 Marolles-en-Brie
FRANCE
Philippe Halin, CEO
210-757-4700
Email: philippe.halin@neogroupe.com
Website: www.neogroupe.com
Products/Services: NeoGroupe manufactures standard and tailor-made software solutions for small to large-scale radio and television broadcasters. Applications include contest management, call screening, SMS/website audience interaction, budget, purchasing and hardware inventory solutions dedicated to customers ranging from high-profile talk shows to major public organizations worldwide.

Netia Inc.
10 East 40th Street, 11th Floor
New York, NY 10016-0201
Jeffrey Jaworski, Area Sales Manager North America
212-332-2141
Email: j.jaworski@netia.com
Website: www.netia.com
Products/Services: Netia, a GlobeCast company, provides software solutions that enable efficient management and delivery of content to media platforms. Netia solutions allow content producers and owners to manage their content from ingest to delivery, targeting multiplatform outlets including the Internet, VOD, IPTV services, and mobile devices.

Neumann USA
1 Enterprise Drive
Old Lyme, CT 06371
Eric Stubbert, Channel Manager, Professional Systems
877-736-6434
Email: info@sennheiserusa.com
Website: www.neumannusa.com
Products/Services: Established in 1928, microphone and studio monitor manufacturer Georg Neumann GmbH is known for its product designs. The legendary brand has been recognized with several international awards for its technology innovations. Neumann owns manufacturing facilities in Germany and Ireland and is a member of the Sennheiser Group.

Neutrik USA Inc.
4115 Taggart Creek Road
Charlotte, NC 28208-5479
Pete Milbery, President
704-972-3050
Email: info@neutrikusa.com
Website: www.neutrik.com

NewBay Media
5285 Shawnee Road, Suite 100
Alexandria, VA 22312
Terry Hanley, Editor, Contract Publishing
703-852-4636
Email: thanley@nbmedia.com
Website: www.nbmedia.com
Products/Services: Parent of Radio World. Our mission: To connect our audiences to authoritative, informative and compelling content, in print, digitally and in person, and to offer unsurpassed value and innovation for our advertisers, sponsors and business partners. At the content center of the world's most dynamic industries — music, AV/pro audio, consumer electronics/gaming, video & broadcast and education. We connect and inform millions of constituents in these markets through our award-winning content, integrated media capabilities, and high-profile network-building, informative events. Our unparalleled reach provides marketing partners with exciting, engaging and effective targeted communities, and connects them with decision makers and influencers across these markets.

NewsBoss
P.O. Box 277
Lindfield, NSW 2070
AUSTRALIA
Kurt Lass, Director Product Marketing
+61-2-6493-2785
Email: sales@newsboss.com
Website: www.newsboss.com
Products/Services: NewsBoss is a powerful newsroom system designed for radio and used by nearly 500 radio broadcast facilities worldwide. Specialized tools for news gathering, content creation, newscast management and on-air presentation enable efficient and accurate delivery of high-quality radio news content.

NewTek Inc.
5131 Beckwith Blvd.
San Antonio, TX 78255
Michael Parkhill, Inside Sales Manager, Worldwide
210-370-8000
Email: mparkhill@newtek.com
Website: www.newtek.com
Products/Services: NewTek is transforming how people create network-style content and share it with the world. From radio, live entertainment, and Web-based talk shows — to any venue where people want to capture and publish live video, we give our customers the power to grow their audiences, and businesses, faster than ever.

NicomUsa Inc.
1690 Cactus Road
San Diego, CA 92154
Dina Giannone, Sales
619-671-9500
Email: dina@nicomusa.com
Website: www.nicomusa.com
Products/Services: NicomUsa Inc. offers a line of low-power FM transmitters, STL systems, translators, audio equipment and reconditioned test equipment. Nicom also manufactures antennas for most FM requirements.

Nott Ltd.
3801 La Plata Hwy.
Farmington, NM 87401
Randy Klock, Marketing Director
505-327-5646
Email: rklock@nottltd.com
Website: www.nottltd.com
Products/Services: Detuning, AM unipole systems, elevated radial systems and dissipators

Nova Electronics
Box 740482
Dallas, TX 75374
Mike Vanhooser, President
214-725-5621
Email: sales@novaelectronics.net
Website: novaelectronics.net
Products/Services: Broadcast engineering and construction, buildouts/upgrades/repairs of AM, FM, TV and SW stations, AM directionals, LPFM/translators, towers and AM ground systems. New and used transmitter sales, STL systems and field measurements.

NPR Satellite Services
635 Massachusetts Ave. NW
Washington, DC 20001
202-513-2608
Email: dholmes@npr.org
Website: www.nprss.org

NTI Americas
P.O. Box 231027
Tigard, OR 97281

World Radio History

503-684-7050
Email: ntisales@ntiam.com
Website: www.nti-audio.com
Products/Services: Test instruments for setup, maintenance and monitoring of professional audio and broadcast including: analog MR2, MR-PRO generators; XL2, AL1, ML1 audio/acoustic analyzers, STI-PA for XL2, AL1; digital DR2 generator; digital DL1 analyzer; TalkBox acoustical source; Flexus FX100 R&D and production bench top analyzer/generator systems.

OMB America
3100 NW 72 Ave., Unit 112
Miami, FL 33122
Rafael Arreaza, Sales Manager
305-477-0973
Email: arreaza@omb.com
Website: www.omb.com
Products/Services: OMB America is the international sales office for OMB Spain, manufacturer of radio FM and TV transmitters, antennas, STL systems, analog and digital. Over 40 years in the broadcasting market and the company sells all over the world.

Omnia Audio, a Telos Alliance Company
1241 Superior Ave.
Cleveland, OH 44114
Denny Sanders, Omnia Audio Director of Audio
216-241-7225
Email: denny.sanders@telosalliance.com
Website: www.omniaaudio.com
Products/Services: Omnia products represent the state of the art in audio processing for FM, AM, Internet and studio applications.

Omnirax Broadcast Furniture
P.O. Box 1792
Sausalito, CA 94966
Philip Zittell, Director
800-332-3393
Email: philip@omnirac.com
Website: www.omnirax.com
Products/Services: Our Innova line of custom broadcast furniture combines modular components with custom tailored shapes to fit your particular requirements of on-air, production and talk studios. Our Phoenix line offers several versatile "production" versions of Innova's most popular designs which, if they fit your room, can save you almost half.
See story, page 42

OMT Technologies
1-1717 Dublin Ave.
Winnipeg, MB R3H 0H2
CANADA
Scott Farr, Business Development
888-665-0501
Email: sales@imediatouch.com
Website: www.imediatouch.com
Products/Services: Technology and solutions provider to the broadcast industry across North America and internationally. Feature products include iMediaTouch radio automation and iMediaLogger, radio's No. 1-selling digital audio logger. OMT delivers reliable and innovative product solutions to meet the evolving needs of the broadcast industry.

Optelator-Stormin Protection Products Inc.
243 21st Ave. N.
Saint Petersburg, FL 33704
John Pecore, President
727-823-6100
Email: jpecore@earthlink.net
Website: www.opticshield.com
Products/Services: We are a power quality engineering company noted for the fiber optic remote modem isolation unit, the Optelator, can be used with Gentner, Burk or other remote monitoring. We are also noted for line interactive AVR UPS 2200VA rack mount and floor models. Handle backup generators with wide frequency bandwidth issue. Industrial 100BASET surge suppression and low voltage protection devices.

Orban
8350E. Evans Road, Suite C-4
Scottsdale, AZ 85260
David Rusch, Sales and Marketing Manager
480-403-8300
Email: info@orban.com
Website: www.orban.com
Products/Services: Orban's Optimod series audio processors pull in large audience shares with a louder, cleaner and more attractive signal. Whether your signal is AM, FM, HF/shortwave, conventional television, DTV, DAB or Webcasting, Optimod processing will shape your sound for maximum reach, appeal and long-term listenability.
See story, page 41

Ots Labs
Box 8111
SE-104 20 Stockholm
SWEDEN
+46-8-123-50-799
Email: www.otslabs.com/email/
Website: www.otslabs.com
Products/Services: Ots AV Radio Broadcaster software is used by thousands of radio stations and Webcasters worldwide for its intelligent auto mixing technology, integrated dynamics processing, built-in scheduling and stability. A free trial download is available at *www.otsav.com.*

P Cube Inc.
P.O. Box 487
Raymond, ME 04071
Rich Almeida
207-655-9650
Email: sales@pcube207.com
Website: www.pcube207.com/
Products/Services: With 75 years of cumulative design experience, we are ready to help you with your next RF project. P Cube can provide cost-effective solutions when you need a filter combiner, mask filter, low-pass filter, directional coupler or any other RF product in our catalog.

iMediaTouch
Broadcast Automation
Innovative software and solutions for broadcast radio automation
iMediaLogger
Digital Audio Logging
Advanced audio logging, recording and distribution technology for radio

Penta Laboratories
9740 Cozycroft Ave.
Chatsworth, CA 91311
818-882-3872
Email: info@pentalabs.com
Website: www.pentalabs.com
Products/Services: Penta Laboratories distributes vacuum tubes and capacitors for broadcast and audio applications. Quality tubes at competitive prices for radio and TV stations. Each vacuum tube is extensively tested prior to shipment.

Phase Technologies
3620 Homestead Street
Rapid City, SD 57703
Steve Mathiesen, Sales/Marketing Director
605-343-7934
Email: info@phasetechnologies.com
Website: www.phasetechnologies.com
Products/Services: Phase Perfect phase converters provide clean, balanced, efficient three-phase power when utility three-phase is unavailable. A sine wave output with voltage balance within 1 percent, Phase Perfect is easy to install and no adjustments are necessary. Very little standby power consumption and five sizes to choose from.

Phasetek Inc.
550 California Road, Suite 11
Quakertown, PA 18951
Robin Nelson, Administrative Assistant
215-536-6648
Email: sales@phasetekinc.com
Website: www.phasetekinc.com
Products/Services: Manufacturer of custom AM broadcast equipment: phasors, diplexers, ATUs as well as FCC filing. Committed to excellence and customer satisfaction in the radio industry.

Pilat Media
135 East 57th Street
New York, NY 10022
Kim Kelly, Head of Corporate Communications
646-745-3900
Email: info@pilatmedia.com
Website: www.pilatmedia.com
Products/ Services: Pilat Media Global plc (AIM: PGB) develops, markets and supports business management software solutions for content and service providers. Pilat Media's systems improve business performance; accelerate time to market; and enable diversification and growth of content programming, advertising sales, traffic and media operations for multiplatform, linear and on-demand services.

Pira.cz
Bc. Jan Kolar
Serikova 2129
CZ-28802 Nymburk
CZECH REPUBLIC
Email: mail@pira.cz
Website: http://pira.cz/eng/
Products/Services: RDS encoders, FM broadcast analyzers, silence detection.

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Potomac Instruments
7309 Grove Road, Unit D
Frederick, MD 21704
Guy Berry, Manager
301-696-5550
Email: sales@pi-usa.com
Website: www.pi-usa.com
Products/Services: Potomac Instruments manufactures and services medium-wave antenna monitoring systems, field strength meters and related test equipment used in the broadcast market.

PreSonus Audio Electronics
7257 Florida Blvd.
Baton Rouge, LA 70806
Steve Oppenheimer, Public Relations Manager
225-216-7887
Email: soppenheimer@presonus.com
Website: www.presonus.com
Products/Services: PreSonus Audio Electronics Inc. designs and manufactures audio-recording and live-sound software, hardware and related accessories. PreSonus's software, microphone preamps, signal processors, digital audio interfaces, digital mixers, control surfaces, loudspeakers and other products are used worldwide for recording, sound reinforcement, broadcast, sound design and Internet audio.

PrimaSat Communications Inc.
696 Montée Montrougeau, Suite 302
Laval, QC J7P 5L1
CANADA
Pierre Gervais, Consulting Engineering
514-664-4697
Email: pgervais@primasat.ca
Website: www.primasat.ca
Products/Services: As a value added reseller and distributor, we provide product and solutions to our customers. Broadcast, RF solutions and specializing in satellite communications. We perform turnkey projects any size anywhere in the world.

Pristine Systems Corp.
1891 N. Gaffey St., Suite I
San Pedro, CA 90731
Kevin Loper, CEO
310-831-2234
Email: sales@pristinesys.com
Website: www.pristinesys.com
Products/Services: Established in 1983, Pristine Systems Corp. offers live assist, satellite automation and music-on-hard-drive solutions. Each designed to be user friendly, yet powerful enough to handle the most demanding tasks. Advanced metadata capabilities, easy operation, cutting edge features, unsurpassed tech support and affordable pricing.

Pro-Comm Inc.
1105 Industrial Parkway
Brick, NJ 08724
Carol Butti, Admin Asst
732-206-0660
Email: procomm222@aol.com
Website: www.procomm222.com
Products/Services: Design high-power RF microwave devices. RF amplifiers, triode cavity oscillators, sources, transmitters, test equipment for cellular, military, medical, sterilization, university and private labs, etc. Operating frequencies 600 MHz to 3,000 MHz with powers from 500 W peak to 50 kW peak nominal. Also design, manufacture and service RF drivers.

ProAudio.com
1320 Post & Paddock Road, Suite 200
Grand Prairie, TX 75050
800-433-2105
Email: sales@proaudio.com
Website: www.proaudio.com
Products/Services: Founded in 1971 as Crouse-Kimzey Company, ProAudio.com is a dealer/distributor of more than 400 professional audio, video, lighting and broadcast equipment lines. Offering convenient online shopping and an experienced sales staff, ProAudio.com serves broadcasters, churches, schools and contractors, in all 50 U.S. states and internationally.

Progressive Concepts
305 South Bartlett Road
Streamwood, IL 60107
Eric Hoppe, Owner
630-736-9822
Email: sales@progressive-concepts.com
Website: www.progressive-concepts.com
Products/Services: FM radio broadcast and LPFM radio broadcast transmitters, coaxial cables, antennas, towers, microphones, mixing consoles, audio processors, accessories and more.

Propagation Systems Inc. - PSI
719 Pensacola Road, P.O. Box 113
Ebensburg, PA 15931
Doug Ross, President
814-472-5540
Email: sales@psibroadcast.com
Website: www.psibroadcast.com
Products/Services: Solutions for FM and TV broadcasting including broadcast antennas, combiners, filters, transmission lines. Antenna designs available for all power levels, directional or non-directional, pattern optimization, customization and multi-station requirements. Full FM and TV turnkey transmission systems.

PTEK
1723-D Little Orchard Street
San Jose, CA 95125
Rosy Ryan, Marketing
888-889-2958
Email: rosy@ptekpower.com
Website: www.ptekpower.com
Products/Services: PTEK offers solid-state transmitters from 150-10,000 watts. PTEK offers superior technical support that sets us apart. All products are designed and manufactured in America.

Qphonics
P.O. Box 450509
Atlanta, GA 31145
Sales/Service
678-966-9900
Email: info@qphonics.com
Website: www.qphonics.com
Products/Services: The company, formerly Klotz Digital, sells and services digital audio broadcast and production consoles. Digital audio processing, control and distribution platform for radio and television stations. Also sales and service for Varizone, a digital PA/VA, EVAC, voice evacuation, public address/voice alarm and commercial sound systems.

Quu Inc.
7683 SE 27th Street, #432
Mercer Island, WA 98040
Joe Harb, CEO
864.697.8801
Email: info@myquu.com
Website: www.quuinteractive.com
Products/Services: Quu is an advertising and content management platform that recognizes over-the-air commercials and displays synchronized text on RDS and HD Radio, as well as rich messaging online and on mobile platforms from a single, easy-to-use interface. All content is synchronized with interactive online playlist and mobile application.

RadioAdStore.com
307 Brown Street
Waxahachie, TX 75165
Dave Scott, CEO
866-500-0500
Email: dave@scott.fm
Website: RadioAdStore.com
Products/Services: Radio stations can sell ads on their Website using the helpers in our on-line store kit. No cost until merchants actually buy ads.

Radio Engineering Associates
79 Tyler Road
Townsend, MA 01469
Steve Cloutier, Chief Technical Officer
978-597-0010
Email: radioworld@radioassociates.com
Website: www.radioassociates.com
Products/Services: Manufacturers of high-quality, accurate, cost-effective modulation monitoring equipment for all types of AM transmitters and installations, from FCC Part 15 transmitters to 100 kW shortwave or standard broadcast installations and everything in between.

Radio Sales Cafe (RadioSalesCafe.com)
Rebecca Schwartz, Administrator
Email: rebecca@gracebroadcast.com
Website: radiosalescafe.com
Products/Services: Radio Sales Cafe is an online community exclusively for radio advertising sales professionals. With thousands of members worldwide sharing ideas and resources, solving sales problems, brainstorming, etc., the Cafe has become "the preeminent resource [for radio sales] today." (Small Market Radio Newsletter) Join us! Membership is free.

Radio Systems
601 Heron Drive
Logan Township, NJ 08085
Jo-Ann Dunn, Sales Manager
856-467-8000
Email: sales@radiosystems.com
Website: www.radiosystems.com
Products/Services: Manufacturer of analog, hybrid and digital consoles, distribution amplifiers, clocks and timers, telephone interfaces and StudioHub+ Cat-5 complete studio wiring system.

Radio World
5285 Shawnee Road, Suite 100
Alexandria, VA 22312-2334
703-852-4600
Email: radioworld@nbmedia.com
Website: radioworld.com
Products/Services: Radio World is the leading news source for radio managers and engineers, published in multiple international editions serving the global broadcast and new media marketplace. Digital media, streaming, IP audio, new transmission standards, tech tips, newsmaker profiles and more. Part of the NewBay Media family of publications, parent of TV Technology, Radio magazine, Broadcasting & Cable, the NAB Daily News and much more.

Radionomy
225 Bush Street, 12th Floor
San Francisco, CA 94104
Jonathan Westerling, Audience Manager, US
415-722-9182
Email: broadcasters@radionomy.com
Website: www.radionomyforbroadcasters.com

World Radio History

Products/Services: A streaming solution for small to mid-size broadcasters who want to take their online signal from a cost center to a revenue generator. Our no-cost, listener monetizing platform offers superior sound, in-stream server-side ad injection, powerful statistics and access via any industry-standard listening technology.

RadioTraffic.com
307 Brown Street
Waxahachie, TX 75165
Dave Scott, CEO
866-500-0500
Email: dave@radiotraffic.com
Website: radiotraffic.com
Products/Services: Traffic and billing software for order entry, log generation, invoice generation, receiving bank deposits, reports, projections, copy and production entry, maintenance and billing affidavits. Affordable yet fully featured.

RAM Systems
27992 West Route 120, Suite 138
Lakemoor, IL 60051
Ron Mitchell, President
847 487 7575
Email: sales@ramsystemsonline.com
Website: www.ramsystemsonline.com
Products/Services: Systems integration company that caters to the broadcast and recording industries. RAM manufactures studio furniture and represents many other companies whose products are used in the integration process.

RCS
445 Hamilton Ave.
White Plains, NY 10601
Philippe Generali, President/CEO
914-428-4600
Email: sales@rcsworks.com
Website: www.rcsworks.com
Products/Services: Technology company that has been inventing solutions for the broadcasting industry for over 30 years. As innovations, our products and services are used at more than 9,000 radio stations, TV music channels, cable companies, satellite radio networks and Internet stations worldwide.
See our Profile in Excellence, page 10

RDL
659 6th Street
Prescott, AZ 86301
Chuck Smith, National Sales Manager
928-443-9391
Email: sales@rdlnet.com
Website: rdlnet.com
Products/Services: Audio, video and control modules. Broadcast-quality digital audio products, audio/video over twisted pair, mic preamps and hundreds of audio/video interface products for a variety of applications.

RealTraps Acoustics
34 Cedar Vale Drive
New Milford, CT 06776
James Lindenschmidt, General Manager
860-210-1870
Email: jwl@realtraps.com
Website: www.realtraps.com
Products/Services: Manufacturer of professional acoustic treatments and portable recording solutions available in all price ranges, making the world sound better, one room at a time, since 2001.

RF Specialties Group
For the list of offices that comprise the RF Specialties Group, see www.rfspecialties.com.

RIZ Transmitters Co.
Božidarevićeva 13, P.O. Box 654
HR-10000 Zagreb
CROATIA
Vlatka Petric, Head of Sales
+385-1-2355-261
Email: riz@riz.hr
Website: www.riz.hr
Products/Services: Leading producer of high-power radio broadcasting transmitters, all DRM-capable. MW solid-state transmitters, Fidelity Line, up to 2,000 kW extremely efficient (over 90%); SW transmitters up to 500 kW; latest generation of RIZ DRM exciters/modulators; turnkey projects, stationary and mobile

RØDE Microphones
6385 Rose Lane
Carpinteria, CA 93013
805-566 7777
Email: info@rodemic.com
Website: www.rodemic.com

Rohde & Schwarz USA Inc.
8661A Robert Fulton Drive
Columbia, MD 21046
Emily Webster, Marketing
410-910-7800
Email: info@rohde-schwarz.com
Website: hwww.rohde-schwarz.com/USA
Products/Services: Solutions in the fields of broadcasting. Established almost 80 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

ROHN™
Products LLC

Rohn Products
P.O. Box 5999
Peoria, IL 61601-5999
info@rohnnet.com
309-566-3000
www.rohnnet.com
Products/Services: Rohn Products is a leader in the tower industry. Rohn supplies self-supporting towers, guyed towers, poles and accessories. We also have in-house engineering as well as installation capabilities.

Roland Systems Group U.S.
5100 S. Eastern Ave, P.O. Box 910921
Los Angeles, CA 90091
Christian Delfino, VP of Sales
323-215-2111
Email: info@rolandsystemsgroup.com
Website: www.rolandsystemsgroup.com
Products/Services: We supply the commercial and performance audio/video industries with application-specific equipment from the Roland audio and video product lines. These address applications for houses of worship, studios, radio and broadcast, theaters/performing arts centers, production houses and rental and staging companies.

RTW International Corp.
20E East Roseville Road
Lancaster, PA 17601
Christopher Spahr, Director of Sales & Operations
877-938-7221
Email: cspahr@rtw.com
Website: www.rtw.com
Products/Services: For more than 45 years, RTW has accompanied the steady technological progress in the professional audio industry with innovative instruments and technologies for visual audio monitoring in broadcast, production, post production and quality control. RTW International Corp. houses all customer service, repair and final product assembly activities for U.S.-based customers.

Rushworks
800 Parker Square, Suite 200
Flower Mound, TX 75028
Rush Beesley, President
888-894-7874
Email: rush@rushworks.tv
Website: www.rushworks.tv
Products/Services: Low-cost, easy-to-use television production and automation systems for encoding and streaming meetings and events ... as well as 24/7 content playback for both broadcast and streaming TV stations. We specialize in touch screen PTZ camera control to support single operator multi-camera productions.

R.V.R. USA
7782 NW 46 Street
Miami, FLA 33166
Juan Carlos Sampedro
305-471-9091
Email: juancarlos@rvrusa.com
Website: www.rvrusa.com
Products/Services: R.V.R. Elettronica was founded in 1979 and during these 33 years R.V.R. has formed an established group of companies consolidating its position in the FM and TV market. RVR can supply analog and digital, air- or liquid-cooled FM and TV transmitters, antennas, filters, combiners and accessories.

Sabre Towers and Poles
2101 Murray Street
Sioux City, IA 51111
Terrence Becht, Broadcast Sales Representative
800-369-6690
Email: towerinfo@sabreindustries.com
Website: www.sabretowersandpoles.com
Products/Services: Providing towers for nearly all broadcast applications, Sabre Towers and Poles manufactures guyed and self-supporting towers with tubular, solid round or angle members. Our components division, Sabre Site Solutions, offers pre-engineered lightweight towers and tower accessories. Sabre offers concrete and lightweight shelters from Sabre Building Systems by CellXion.

SADiE
21 Pine Street
Rockaway, NJ 07866
973-983-9577
Email: sales@sadie.com
Website: www.sadie.com
Products/Services: SADiE audio software for radio production offers unbeatable editing and pioneering programmaking tools. SADiE is trusted by leading broadcasters around the world such as the BBC, Radio France, Deutsche Welle, RNE, ABC and many more. SADiE is available in a variety of hardware and software solutions.

Sage Alerting Systems
800 Westchester Ave., Suite 641 North
Rye Brook, NY 10573
Harold Price, President
914-872-4069
Email: info@sagealertingsystems.com
Website: www.sagealertingsystems.com
Products/Services: Emergency Alert System (EAS) and Common Alerting System (CAP) hardware and software

World Radio History

for the international broadcast industry. Sage's flagship product, the Sage Digital ENDEC, provides combined EAS and CAP support in a fully certified solution. Sage has provided EAS solutions since 1996.

Sandies
225 Lincoln Hwy, Suite 167
Fairless Hills, PA 19030
David Strode, Owner
215-547-2570
Email: service@sandiesusa.com
Website: www.sandiesusa.com
Products/Services: Sandies manufactures the Dynamax MX series of on-air broadcasting consoles in 4-18 channel configurations as well as the Model 340, 343 and 393 Series Studio Warning Lights displaying "ON AIR," "RECORDING" and custom text requests in a multitude of languages.

SCISYS Deutschland GmbH
Borgmannstr. 2
OE-44894 Bochum
GERMANY
Harald Groeger, Business Communications & Sales
+49-234-9258-0
Email: media@scisys.de
Website: www.scisys.de
Products/Services: Solutions in the professional broadcast segments for more than 20 years. SCISYS implements turnkey systems for leading broadcasters based on the modular dira! product line and the SCISYS content management system for archives. Its customers include the BBC, major German and Arabic broadcasters.

SCMS Inc.
10201 Rodney Blvd.
Pineville, N.C. 28134
Matt Cauthen, Vice-President
800-438-6040
Email: sales@scmsinc.com
Website: www.scmsinc.com
Products/Services: A 36-year-old company dedicated to the broadcast industry, with 11 field offices across the U.S. plus corporate office near Charlotte, N.C. SCMS has over 250 years of combined technical RF and audio experience on staff, representing over 500 quality manufacturers. You Know We Know Radio!

Securenet Systems
356 SW 12th Ave.
Deerfield Beach, FL 33442
Kerry Brewer, Executive Management
954-481-9402
Email: info@securenetsystems.net
Website: http://radiostreamingservices.com
Products/Services: World's largest streaming provider for radio stations. Serving thousands of radio stations in over 40 countries and every U.S. state, offering a range of Internet-centric services to the radio industry, including high-speed streaming in HE-AAC v2, royalty accounting, free ad insertion, mobile listener apps, ad network revenue sharing and more.

Sennheiser
One Enterprise Drive
Old Lyme, CT 06371
860-434-9190
Email: info@sennheiserusa.com
Website: www.sennheiserusa.com
Products/Services: World-leading manufacturer of microphones, headphones and wireless transmission systems. Established in 1945 in Wedemark, Germany, Sennheiser is a global brand represented in 60 countries around the world with U.S. headquarters in Old Lyme, Conn.

Shively Labs
P.O. Box 389, 188 Harrison Rd.
Bridgton, ME 04009
Angela Gillespie, Sales Manager
207-647-3327
Email: sales@shively.com
Website: www.shively.com
Products/Services: FM antennas, filters, combiners, coax components and related transmission products. Shively is the industry leader for supplying FM transmission equipment for HD Radio implementation, including interleaved antennas, dual antennas, dual feed multi-station systems and special filtering and combining techniques.

Sierra Automated Systems & Engineering Corp.
2821 Burton Avenue
Burbank, CA 91504
Al Salci, VP Sales
818-840-6749
Email: al@sasaudio.com
Website: www.sasaudio.com
Products/Services: Solutions for audio routing, mixing, consoles, intercom/talkback, IFB and automation. SAS manufactures consoles, studio control panels, intercom stations, headphone amplifiers, USB audio interfaces and audio networks. Connect analog, digital, AoIP — they can all talk to each other! Extensive remote control, programming and diagnostic software.

Sine Control Technology Inc.
P.O. Box 3796
Seal Beach, CA 90740
Hank Landsberg, CEO
562-493-3589
Email: hank@sinecontrol.com
Website: www.sinecontrol.com
Products/Services: PowerClamp TVSS is the industry leader in surge suppression and power protection. PowerClamp TVSS units will help prevent equipment damage by eliminating spikes and surges on the AC power line. PowerClamp's ultra-low Clamping Level assures your gear will operate reliably for years without damage caused by AC power line spikes!

Sine Systems
4835 N. Street Road
Marcellus, NY 13108
Kevin Smith, Sales/Technician
315-673-3570
Email: kevin@armstrongtx.com
Website: sinesys.com
Products/Services: Sine Systems produces the popular RFC-1/B remote control and monitoring equipment for broadcast transmitter sites.

Smarts Broadcast Systems
2508 Main Street
Emmetsburg, IA 50536
Henry Mowry, Director of Marketing
800-747-6278
Email: sales@smartsbroadcast.com
Website: www.smartsbroadcast.com

Softron Media Services
c/o IBS Inc.
3311 S. Rainbow Blvd, Suite 102
Las Vegas, NV 89146
702-275-6353
Email: sales@softron.tv
Website: http://www.softron.tv
Products/Services: Softron has been building easy-to-use and affordable radio and TV automation solutions for the Mac since 1986. Its solutions are available through the Mac App Store or through its network of resellers.

SoftWright LLC
P.O. Box 7205
Charlottesville, VA 22906
Curt Alway, Sales
800-728-4033
Email: sales@softwright.com
Website: www.softwright.com
Products/Services: SoftWright, a GSA contract holder, is the developer of the Terrain Analysis Package (TAP) terrestrial RF propagation software. TAP is used by federal agencies, state/local public safety departments, energy companies, utilities and consultants to evaluate radio transmitter sites; predict and analyze radio coverage; conduct interference studies; and design RF links.

Sonifex Ltd.
61 Station Road
Irthlingborough, Northamptonshire NN9 5QE
ENGLAND United Kingdom
Richard Butlin, Sales Manager
+44-1933-650-700
Email: sales@sonifex.co.uk
Website: www.sonifex.co.uk
Products/Services: Sonifex has been manufacturing high-quality audio and video equipment for radio and TV studios for over 40 years and has a reputation for quality and reliability.

Sound4
11 Quai Joseph Gillet
FR-69004 Lyon
FRANCE
Vincent Defretin, Product & Project Manager
917-383-2200
Email: sales@sound4.biz
Website: www.sound4.biz

StationPlaylist.com
326 Otumoetai Road
Tauranga, 3110
NEW ZEALAND
Email: sales@stationplaylist.com
Website: www.stationplaylist.com
Products/Services: An affordable and powerful radio broadcasting software solution for terrestrial radio and Internet streaming/webcasting. We produce a music/spot scheduler, live assistance/automation playout with manual or intelligent automatic crossfading, instant cart system, Website integration, local and remote voice tracking, more.

Steinberg
6600 Orangethorpe Avenue
Buena Park, CA 90620
714-522-9011
Email: infostation@yamaha.com
Website: www.steinberg.net
Products/Services: Steinberg's professional-grade products include Cubase recording software, Wavelab mastering software, a range of VST programs, Nuendo post-production software, recording interfaces, including the UR, MR and CI series, and the CMC and CC121 controllers.

Stirlitz Media
Belgijska 11/11
PL-02-511 Warsaw
POLAND
Cesco van Gool, International Sales Director
+48-223897642

World Radio History

Email: cesco@stirlitzmedia.com
Website: www.stirlitzmedia.com
Products/Services: The world's best audio/video and metadata logging software. Timeline-based Player for Windows, OSX, iOS and Android. Monitor competition, detect new advertisements and songs. Stream audio and video archives to Website and mobile app. Automated and scripted exports based on play-out system metadata. Used by broadcasters and monitoring companies worldwide.

StreamGuys
2212 Jacoby Creek Road
Bayside, CA 95524
Jonathan Speaker, COO
707-667-9479
Email: info@streamguys.com
Website: www.streamguys.com
Products/Services: Audio and video streaming services. We have a reputation for outstanding customer service, a robust and reliable network and competitive rates. More than 600 clients worldwide, across many industries, depend on our mission-critical service as a content delivery network.

Studer USA
8500 Balboa Blvd.
Northridge, CA 91329
Katy Templeman-Holmes, Marketing Manager
818-920-3212
Email: studer-usa@harman.com
Website: usa.studer.ch

Studio Items Inc.
27992 West Ill. Route 120, Suite 138
Lakemoor, IL 60051
Ron Mitchell, President
815-669-2070
Email: sales@studioitems.com
Website: www.studioitems.com

Studio Technology
529 Rosedale Road, #103
Kennett Square, PA 19348
Vince Fiola, President
610-925-2785
Email: vfiola@studiotechnology.com
Website: www.studiotechnology.com
Products/Services: Studio Technology designs, constructs, delivers and installs technical furniture for the broadcast industry nationwide. We provide both custom and standard furniture lines.
See story, page 43

Superior Broadcast
18208 Preston Road
Suite 09-297
Dallas, TX 75252
972-473-2577
Email: jjsbp@msn.com

Superior Electric
One Cowles Road
Plainville, CT 06062
Ted Gladis, Broadcast Sales
860-507-2025
Email: info@superiorelectric.com
Website: www.superiorelectric.com
Products/Services: Superior Electric is the manufacturer of Stabiline Power Quality Solutions. Products include automatic voltage regulators, surge protective devices, uninterruptible power supplies and power conditioners.

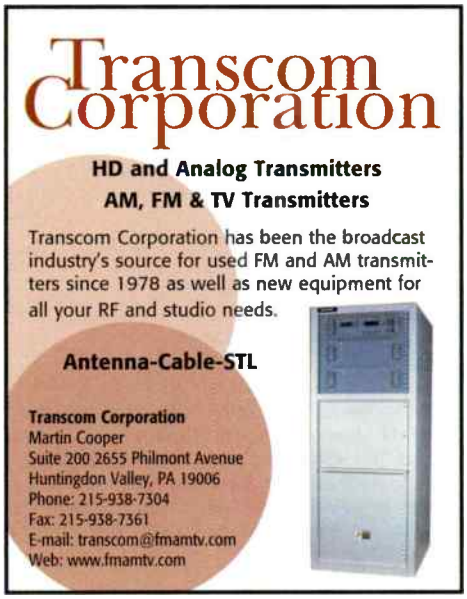
Surcom Associates Inc.
5674 El Camino Real, Suite K
Carlsbad, CA 92008
(760) 438-4420
Email: link@surcom.com
Website: www.surcom.com
Products/Services: A stocking distributor of vacuum, ceramic & mica RF transmitting capacitors.

Symetrix Inc.
6408 216th Street SW
Mountlake Terrace, WA 98043
Brooke Macomber, Director of Marketing
425-778-7728
Email: sales@symetrix.co
Website: www.symetrix.co

SystemsStore
4327 S Hwy 27 - 423
Clermont, FL 34711
407-656-3719
Email: sales@systemsstore.com
Website: www.systemsstore.com
Products/Services: Since 1999 SystemsStore has been a premium supplier of various Cat-5 and Cat-6 connectivity tools, punch blocks, power protection, wire management devices, "problem solvers," tools, test equipment and accessories required to create and maintain a modern technical infrastructure.

Szabo Associates Inc.
3355 Lenox Road NE, Suite 945
Atlanta, GA 30326
Robin Szabo, President
404-266-2464
Email: info@szabo.com
Website: Szabo.com
Products/Services: Media and entertainment accounts receivable collections. Decades of experience and understanding of the special credit customs, processes, terminology and practices enable Szabo employees to find solutions to your individual credit problems fast, no matter how large or small the collection.

T.Z. Sawyer Technical Consultants LLC
2130 Hutchison Grove Court
Falls Church, VA 22043
Tim Sawyer, Senior Engineer/Partner
202-642-2130
Email: info@tzsawyer.com
Website: www.tzsawyer.com



Products/Services: The firm provides spectrum allocation studies, site selection analysis. Specialized services include design and adjustment of AM directional antenna systems; field strength measurements; measurement of RF radiation exposure levels; temporary site facilities; station inspections, equipment evaluation and "due diligent" inspections on behalf of prospective buyers and financial institutions.

Telos Systems, a Telos Alliance company
1241 Superior Ave. E
Cleveland, OH 44114
Clark Novak, Marketing Manager
216-241-7225
Email: clark.novak@telosalliance.com
Website: www.telos-systems.com
Products/Services: Headquartered in Cleveland, Ohio, with offices in Europe, Telos is a manufacturer of audio codecs for ISDN and IP connections, and POTS and VoIP telephone interface products for talk-shows, teleconferencing, audio production, remote broadcasts and intercom applications.

TFT Inc.
1953 Concourse
San Jose, CA 95131-1708
Darryl Parker, VP
408-943-9323
Email: info@tftinc.com
Website: www.tftinc.com
Products/Services: TFT Inc. has been manufacturing professional broadcast equipment for more than 40 years for AM, FM and TV monitoring, STL link equipment and EAS products.

Tieline USA
7202 East 87th Street, Suite #116
Indianapolis, IN 46256
John Lackness, VP Sales, Americas
317-845-8000
Email: sales@tieline.com
Website: www.tieline.com
Products/Services: Digital IP audio codecs for remotes, STLs and multi-point audio distribution. Deliver broadcast-quality 22 kHz FM audio over 3G and 4G cellular networks, wired IP, Wi-Fi, Wi-Max, POTS, ISON, GSM, satellite and X.21/V.35. Codecs include Genie and Merlin families, Bridge-IT, Report-IT applications and the mic adapter, plus the G3 range.
See our Profile in Excellence, page 12 & story, page 44

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Products/Services: Manufacturer of analog and digital switching equipment, warning light fixtures, and custom electronic equipment for radio, television and network stations/facilities.

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Website: www.fmamtv.com
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World Radio History

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World Radio History

Reprinted from September 1, 2013
Studio Technology

USER REPORT

Studio Technology Works for WTMD

Consultant appreciates the attitude of the supplier: 'Let me come down there'

BY EDWIN BUKONT
E2 Technical Services

TOWSON, Md. — Knock on wood. Or laminate. When you are buying broadcast furniture, where function is as important as form, the beauty may be only skin deep.

Knowing what to expect is why my company and others advised WTMD(FM) in Towson, Md., part of Towson University, to use Studio Technology of Kennett Square, Pa., for their recent project for six studios.

CUSTOMIZED

Founded in 1991 by company President Vince Fiola, Studio Technology brings 10,000 square feet of manufacturing facilities and eight staff to the job of building custom technical furniture and accessories (such as LCD mounts) for all areas of broadcast facilities, not just the studios.

After 30+ years of systems integration, I have learned a few things about quality studio furnishings. When I get called into a project, among the first questions I ask is, "Who is building the furniture?"

Choosing furniture properly will make a difference in the terms of a project's scope, cost and schedule. As an example, does any point *inside* the furniture exceed arm's reach? If so, you may not be getting your wiring in there efficiently.

I first worked with Studio Technology right after it formed, and have worked with them many times since. WTMD presented some challenges because the wiring between studios was done by a cabling vendor to Towson University IT specifications and we had a short schedule. S-T worked with us to prep for pre-terminated cables without requiring major surgery on-site.

We encountered the "architect's surprise" wherein furniture was expected to be supported against fabric-covered walls. Studio Technology provided detailed drawings to show the general contractor where blocking was needed. Studio Technology was responsive and resourceful throughout the project, even driving down some added legs the same day they were requested.

Not every project requires custom furniture, but almost every piece requires some customization. Studio Technology can provide cookie cutter product; however, Vince much prefers to say, "Let me come down there," taking his own photos and measurements, and working directly with the project team (yes, even the architect!) — exchanging as much as information as possible. In the words of Fiola, "We try to listen to what the customer is trying to accomplish … then do everything we can to provide it."

An example: The typical access door panels used on Studio Technology furniture are free of protruding hardware. A simple bar supports the door and four roller catches secure the door. To open, you grasp the top edge and pull. This reduces unplanned opening, prevents clothing and headphone cords from being caught and leaves a smooth surface should the door come in contact with fabric-covered surfaces. Hinged doors in tabletop racks are outfitted similarly, using an alternate-action catch.

Another aspect typical of the product is the "punchblock base," which provides ample mounting space and access from the outside whenever possible. Openings, big enough to fit in, are provided throughout or as requested.

Because forced air brings problems of cost, noise, electrical usage and maintenance, simple convection cooling using vented access panels is the standard ventilation method. This is handy when you want to provide temporary access without leaving it all open.

Studio Technology uses medium-density fiberboard (MDF) to manufacture countertops, which provides a strong and stable surface. Base cabinetry is manufactured using 3/4-inch-thick melamine-clad panels (MCP) so that screws attach securely without going through the other side. Tops are sectionalized and seams finished on-site when necessary, such as for Corian.

It would not be a stretch to say that Vince's firm is one of the biggest mom-and-pop operations in the studio furnishings business, with repeat business from many of the largest broadcast firms. (You see their products frequently around the Washington/Baltimore area.) Studio Technology provides design, construction and installation nationwide. From my experience, they can build and ship to you for assembly. They can provide crews to handle assembly and they will help a customer reuse furniture in instances such as a move or changing from a cut-out drop-in analog console to a top-mounted digital console.

For information, contact Vince Fiola at Studio Technology in Pennsylvania at (610) 925-2785 or visit www.studiotechnology.com.

World Radio History

USER REPORT

Omnirax Has Cumulus on Cloud 9

Easy-to-assemble customized furniture packages fit bill for national group owner

BY YANCY T. MCNAIR
Regional Engineering Director
Cumulus Media Inc., Gulf Coast

PENSACOLA, Fla. — One of my colleagues put it best when he said, "Life at Cumulus is never dull."

As a member of a group of Cumulus Media engineers that travels the country working on special projects, I agree. Also, I was asked to write this article because, according to Omnirax, I have probably assembled more Omnirax furniture than anyone in the country.

I was introduced to Omnirax furniture in March 2009 during a studio buildout in Cincinnati. Around noon on delivery day, an 18-wheeler full of Omnirax furniture arrived. When I say full, I mean full: Front-to-back, floor-to-ceiling. It was overwhelming at first. It took a couple hours for six of us to unload the truck by hand and stage everything in an empty floor of the building. After unwrapping and unboxing each piece, we began distributing the pieces into each room.

EASY TO ASSEMBLE

Then began the process of assembling the furniture.

I liked that each piece was clearly labeled. The detailed instructions not only showed how each unit went together but displayed pictures of the furniture already assembled at the Omnirax facility in California. Omnirax even provided every tool we would need to put each piece together. The furniture was so simple, it took our team of six engineers only eight hours to unload, unpack and assemble eight studios.

Since the Cincinnati project, Cumulus has relied on Omnirax for several major projects, including Atlanta, Turner Field in Atlanta, Bridgeport, Conn., Modesto, Calif., Pensacola, Fla., and most recently for Cumulus Media Networks in Nashville, Tenn., Dallas and New York.

Until recently, I was only a part of the assembly process. At the end of last year, Cumulus acquired two additional stations in Pensacola and I was finally able to design my own Omnirax furniture.

The process was so simple. I provided David Holland at Omnirax with the dimensions of my studios and he began to design my furniture. I was able to share David's desktop and watch as he brought my studios to life. David could place consoles, monitors, keyboards, phone systems and just about anything else I could imagine to help maximize workspace.

The beauty of it is that we could experiment with different layouts and designs until I was happy with the final product. David was able to provide a PDF of the design for me to share with local and corporate managers. The entire process took less than an hour.

The great thing about Omnirax furniture is the custom design process. It allows you to design your furniture around the room instead of ordering prefab stuff that hopefully fits in your space. All you have to do is provide Omnirax your dimensions and budget. You'll never pay for something you don't need (like with prefab stuff). If you don't need a countertop rack, you don't order it. Maybe you need more undercounter rack space. Omnirax can provide that. If you can dream it up, Omnirax can probably do it. You receive excellent quality furniture that can stand up to years of abuse and great customer service.

Omnirax has spoiled me with its easy design and assembly. It actually takes longer now to unbox and unwrap everything than it does to assemble it. If it were up to me, I would never buy anything else.

For information, contact Philip Zittell at Omnirax in California at (800) 332-3393 or visit www.omnirax.com.

World Radio History

USER REPORT

Orban Streams for Rogers

Opticodec packages provide hardware and software, processing and encoding

BY BILAL SHIRAZI AND RICK DAL FARRA

Bilal Shirazi is associate general manager, Radio Division, Rogers Digital Media. Rick Dal Farra is director, Engineering Toronto Radio, Rogers Broadcasting Ltd.

TORONTO — Rogers Media Inc. was in the market for a best-in-class audio processing and encoding product for our 55 stations spanning news, music and sports genres.

After surveying vendors and competitive analysis, we needed a product that was reliable, worked with our CDN and our networking requirements and was above all highly reliable, especially in our PPM markets. After a short proof of concept, we selected products from Orban.

Rogers Media Inc. selected the Orban Opticodec 1211e package, a combination of the Optimod-PC 1101e DSP soundcard and Opticodec 1010PE software encoder. Where practical, the audio cards were installed directly into generic 3RU Intel rackmount computers. Markets requiring more streams than the motherboards accommodated received Orban's OptiEXP PCIe expansion option, a separate 3RU chassis with capacity for an additional eight audio cards. Smaller markets with limited rackspace and minimal requirements use the 1RU, all-in-one Opticodec-PC 1511e solution.

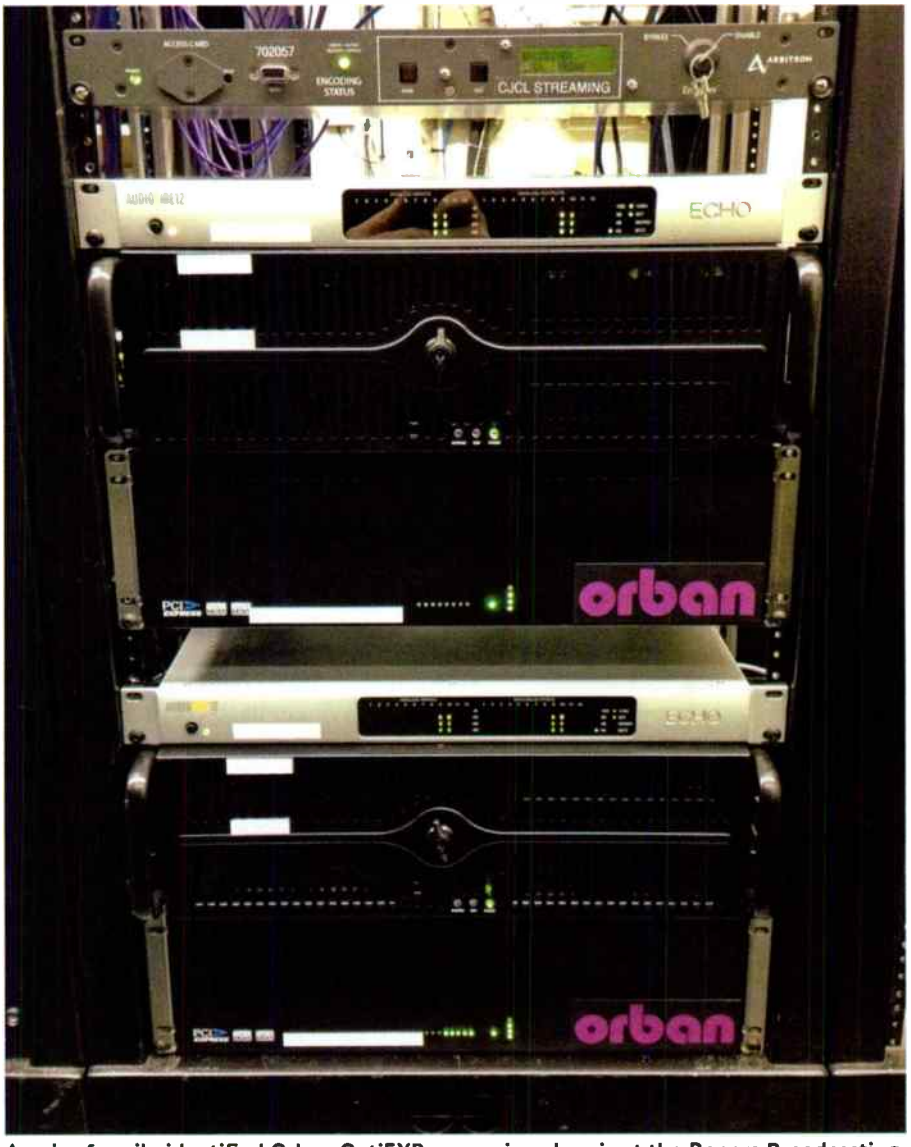
All implementations proved solidly reliable. In our largest market we trust the main and primary streamers to automatically update Windows and reboot on alternate days unattended. We've yet to see an alarm.

Installation was straightforward thanks to Orban's comprehensive documentation, simple wiring and excellent processor presets. The system's architecture offloads audio processing to the card's DSP and stream encoding is handled by a separate software service. Our existing Windows 7 Core i5-760 machines were powerful enough to generate 10 streams from five sources with under 15 percent CPU utilization. Unlike many of its competitors, the encoder supports automatic authentication for distributors who require it.

The overall engineering experience was excellent. Replacing a mix of audio processors and devices with a single, powerful platform across the chain greatly enhanced the listener experience. All streams now have consistently high quality with uniform and competitive levels. Minor processor tweaks were enough to satisfy our toughest program director, and the engineering department greatly appreciates losing the overnight encoder alarms. Orban's engineering and sales departments were excellent to work with over the course of this project, always accommodating and focused on getting the best from their product. They're clearly an engineering-driven organization.

We're delighted with Orban's streaming products and have no hesitancy considering more in the future.

For information, contact David Rusch at Orban in Arizona at (480) 403-8300 or visit www.orban.com.



A pair of easily identified Orban OptiEXP expansion chassis at the Rogers Broadcasting Toronto facility.

World Radio History

Reprinted from August 1, 2013

USER REPORT

Merlin Plus Is Magic for Lincoln Financial

Six input channels at one time bewitches; and what about Opus?

BY BILL EISENHAMER
Chief Engineer
Lincoln Financial Media of California

The Merlin Plus (top) shows a full six channels streaming in.

SAN DIEGO — I always like trying new things. While at the NAB Show in Las Vegas, I stopped by the Tieline booth to say hello. That hello turned into a "you must see this new product" speech and then a quick discussion of what it was and why I had to see it.

I knew the Merlin codec was available, but I also knew that an improved version was in the works. I liked what I saw, but with budgets the way they are, I took note and filed that away in the recesses of my mind, hoping to come back to it for further research at a better time.

Two things stuck in my head after that meeting: (1) Up to six simultaneous IP connections and (2) the use of the Opus algorithm.

Well, recently I received a call asking if I would like to take the Merlin Plus codec for a spin. I did not hesitate to sign the loaner agreement.

SIX CHANNELS

I should have asked why a company would make a box that would accept six simultaneous streams, but for me it was a challenge that needed to be tested. If a product is advertised to do something, I want to know that it will. After receiving the equipment — one Merlin Plus and one Merlin codec (for Opus testing) — I quickly set up the bench for testing.

My test was going to be running six connections using digital I/O into my SAS 32KD routing system, so with the excitement of something new to play with, I started preparing the connections. The I/O expansion port is a DB-25 connection, so I wired one up for my tests.

At first I created a typical connection using the Merlin. I also made connections with my Tieline Commander G3 TLR300 rack codecs. The standard Tieline Music Plus algorithms worked as advertised.

Initially, only single connections were made. I did this to make sure things worked "right out of the box." As I am familiar with Tieline codecs, I had no issues navigating the screen and made these connections.

As a pretest for the Opus algorithm, I configured the Merlin codec for such a connection and tested that. Being happy that all systems are a go, it came time to figure out how to make six connections happen.

I downloaded the manual and started to peruse it because I had found that creating the configuration that I wanted was not fully intuitive. But before I could finish I decided to leave work and go home to think about it. After a beer and another perusal of the manual, the light bulb in my head lit and I was ready for the next attempt.

The next morning, I did not hesitate to create the configuration and see if this thing could actually do six connections. It was also a test of our network infrastructure, as we have three codecs that share a T1 circuit to our ISP. In addition, we have other traffic on that connection, though minimal, that could cause issue.

I connected the following to the Merlin Plus:

1. TLR300 on the network
2. TLR300 on the network
3. Merlin on 4G LTE
4. Report-IT app on Android phone and 4G LTE
5. Report-IT app running on Android tablet on a Wi-Fi hotspot connect to 4G LTE
6. An iPhone with the Report-IT app on 4G LTE.

All connections were at various data rates from 33.6 kbps to 48 kbps, and I let these connections ride for two hours. Success! I had six connections at the same time.

Next, my curiosity turned to the Opus algorithm. It is still in the testing stage, but is available on the Merlin Plus and Merlin codecs. The claim of Opus is quality with low bitrate and low latency. I had to test this one over the 4G LTE network. I selected the appropriate configuration, or program, and made the connection. As with any wireless connection, it took a couple minutes to settle down. I looked at the connection details and saw the buffer settled down to 60 ms, and that was a cellular data connection. When broadcasting normally, we see anywhere between 150 ms to 250 ms buffer, due to the network.

I wanted to test the Opus on a live broadcast but, alas, the station cancelled the remote. A quick frequency response sweep while I was connected found a very respectable 50 Hz–15 kHz response, definitely well suited for voice broadcasts.

The programming of the Merlin Plus codec is done via the Toolbox GUI, which is Java-based. Poking around in the program, I was able to configure the 2X mono connections with ease. Where I wanted to go with the 6X connections required more understanding of the codec and user management tools via Tieserver. Once I had this down, creating the larger configuration program was simple.

continued on page 45

World Radio History

Reprinted from March 13, 2013

USER REPORT

Nautel Transmitters Pull Double Duty

Tennessee broadcaster chooses Nautel boxes or main and back-up missions

BY JEFF SCHROEDER
Contract Engineer
WLQK(FM), Stonecom

COOKEVILLE, Tenn. — When I arrived at Stonecom in January 2012, they had already decided to purchase a Nautel NV10 solid-state transmitter to replace the incumbent Harris 10 kW tube transmitter at WLQK(FM).

I was told the decision had been based on Nautel's solid-state technology being more cost-effective and easier to service than tubes.

I'd had no experience with Nautel transmitters at that point, but heard through my peers of Nautel's top-notch reputation, so I was pretty excited to visit the Nautel booth at last year's NAB Show and check out the NV10 for myself.

I met with Nautel's Central USA Sales Manager Jeff Welton and he showed me not only the NV10 but also the brand-new NV10^{LT} transmitter, which combines the architecture and outstanding efficiency of the NS Series with the intelligent features and exceptional value of the VS Series.

Well, I was sold. For the same price as the NV10, I could get an NV10^{LT} and a VS1 for backup. From our small-market standpoint the dollars made total sense, and we were getting such tremendous value that I changed the order right there and then on the show floor.

I installed the NV10^{LT} in May easily, quickly and simply: Four wires and I was done. If I hadn't had to wait for the electrical contractor, it could easily have been on the air within 24 hours of delivery. And since going on the air, there's been no issues. It's rock-solid.

The extensive redundancy with multiple amplifiers, modules, fans and power supplies eliminates any single point of failure, giving me the confidence to only check on it once a week, thus saving me time and trips to the site. The integrated direct-to-digital exciter is exceptional. The sound is so good and clean, we've had many people commenting on the marked increase in sound.

While I have not had a chance to quantify the exact power savings yet, I know they're there and I'm also looking forward to hooking up the AUI for remote accessibility via the Internet soon.

As for the back-up VS1 — it's a great little box. I installed it in June easily with no issues, and it serves as a regular backup for two FMs at the same site on a single-bay antenna. It is so frequency-agile that with just a little switching, I can back up any one of my FMs. I've even used it to back up an FM at a different site.

For information, contact Nautel Sales in Nova Scotia at (902) 823-5131 or visit www.nautel.com.

TIELINE, continued from page 44

If the codec is hiding behind a firewall, an understanding of the IP port structure is a must as each individual audio stream has a dedicated port. In my tests the session streams used the same port, so the box is capable of managing the individual sessions within the DSP.

It should be noted that Opus is currently not a choice when configured for six connections. I have been informed that this is a project in progress, so I suspect it will be introduced soon.

I can think of many reasons why our music-only stations would need six streams. If I can think up that many for the music stations, just think of the possibilities for a sports or news facility that I could dream up.

For information, contact Tieline USA in Indiana at (317) 845-8000 or visit www.tieline.com.

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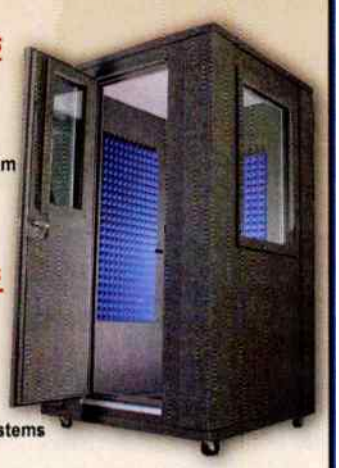

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19	ESE	www.ese-web.com
2	Eventide	www.eventide.com
46	FM Services	www.towermonitor.com
6–7	Inovonics Inc	www.inovonicsbroadcast.com
15	Moseley Associates	www.moseleysb.com
9	OMT Technologies/iMediaTouch	www.omt.net
10–11	RCS	www.rcsworks.com
22	Rohn Products, LLC	www.rohnnet.com
20	Rushworks	www.rushworks.tv
17	Sabre Towers & Poles	www.sabretowersandpoles.com
21	Sage Alerting Systems	www.sagealertingsystems.com
16	Smarts Broadcast Systems	www.smartsbroadcast.com
12–13	Tieline Technology	www.tieline.com
48	Wheatstone Corporation	www.wheatstone.com
46	Whisper Room, Inc.	www.whisperroom.com

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Pictured: Wheatstone's LX-24 flagship and our smaller L-8 radio consoles with several BLADE network interface and control modules

the finest audio for broadcast

For over 30 years, Wheatstone has led the way in radio console/control surface technology, making it number one with broadcasters the world over.

An engineering-based company from the beginning, Wheatstone has always put functionality first, although form, fit and finish are equal parts of our passion. Wheatstone consoles are designed and built in the USA utilizing the latest manufacturing techniques to ensure the highest performance, made to exacting tolerances. The feel and functionality of a Wheatstone radio console is without equal.

Wheatstone consoles are modular control surfaces, using network-based designs for the ultimate flexibility. Our next-generation AoIP WheatNet-IP Intelligent Network or our decades-proven Bridge TDM Network ensure extreme processing power for total access, control, interface and expansion wherever you need it. And our technology partnerships with automation, hardware and software manufacturers provide full compatibility with your existing setup.

On-Air and production radio consoles have evolved and Wheatstone is leading the way.

Learn more about the difference Wheatstone can make to your:

http://bit.ly/wheatRWS

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