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## **BE Overview**

Broadcast Electronics (BE) is the premier provider of mission-critical solutions for terrestrial and Internet radio. Our products encompass program generation, audio and data management, inter-facility transport, and analog and digital transmission. For more than four decades, our pioneering developments have set industry standards for innovation and reliability, while providing broadcasters with new options for operational productivity and income generation. BE is headquartered in Quincy, Illinois and is represented worldwide by our network of local representatives and sales managers.

Broadcast Electronics is the largest radio-only manufacturer in the world. Our R&D efforts employ the industry's best minds, utilizing modern testing labs and world-class manufacturing processes to deliver innovative, high-quality, low-cost products. We take pride in providing the best products and services for the radio industry, consistently exceeding our customer expectations of quality, value and reliability.

## **Broadcast Electronics Milestones**

- **1959** BE founded in Silver Spring, Maryland—first products are endless-loop tape cartridge machines for broadcast of audio content
- **1965** Introduces the first multi-deck tape cartridge machine, Model 605/610
- 1977 Company relocates to Quincy, Illinois
- **1978** Introduced pioneering radio automation system, the Control 16, a microprocessor-based program control system utilizing tape cartridge and open reel tape hardware
- **1979** First range FM exciters and transmitters receives accolades for providing new standards of reliability and performance
- **1989** AudioVAULT, a computer-based radio automation system, with audio content on hard drives leads the digital conversion of radio studio operations
- **1990** Begins delivery of AM transmitters
- 1994 Acquires Marti Electronics, maker of radio studio-to-transmitter interconnect and wireless remote broadcast equipment with powerful brand
- **1995** Completes phase-out of analog studio products to focus on computer-assisted audio and data content creation and management
- 2003 Is first to market with HD Radio products, setting the technology and performance standards upon which other HD Radio products are judged
- 2005 Acquires The Radio Experience, developer of hardware, software and services for creation, management and broadcast via analog FM, HD Radio and webcasting
- 2006 Delivers 4MX series of high power AM transmitters, using patented 4M Modulation
- **2007** Unveils 50 kW combined tube transmitter for HD Radio, establishing a new benchmark for power and efficiency
- 2008 Introduces Exciter and Embedded Exporter utilizing ESP<sup>™</sup> adaptive correction technology for best in class efficiency



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For Immediate Release March 19, 2009

#### Broadcast Electronics (BE) Turns the Big 5-0

## BE's 50-year anniversary marks chance for broadcasters to qualify for a FREE STX LP transmitter or BE AudioVAULT flex automation

#### system

**Quincy, Illinois, USA** – Broadcast Electronics (BE) is inviting broadcasters to share in the celebration of its 50-year anniversary as the industry's largest radio-only equipment manufacturer with opportunities to qualify for a FREE solid-state, lowpower FM transmitter or AudioVAULT FleX studio automation system.

Effective immediately, broadcasters are invited to:

- Enter BE's Oldest Operating BE Transmitter contest to qualify for a FREE BE STX LP 1kW transmitter. The oldest operating BE transmitter will qualify broadcasters for a chance to win BE's newest FM solid-state transmitter, the STX LP. BE is looking for the oldest surviving BE transmitter currently in operation, either operating in standby or as the main transmitter. Qualified candidates can review contest details and submit their applications online at www.bdcast.com/winSTXLP through June 1. On June 18, a panel of BE judges will mark BE's official anniversary date by selecting a winner based on transmitter age, site conditions, and application, among other qualifications. The STX LP is BE's newest line of FM solid-state transmitters scalable up to 5kW and including FM exciter, backup controller and IP connectivity. BE's new STX LP will be on display at BE booth N7917 during the 2009 NAB show in April.
- Don't have an older BE transmitter? No problem. Stop by for a demonstration of the STX LP transmitter at booth N7917 during the 2009 NAB show and enter a drawing for a BE STX LP give-away. Qualified entries will get a chance to win an STX LP in a drawing held at the BE factory after the NAB convention.
- Enter BE's **FleXtreme Makeover: Studio Edition** contest to qualify for a FREE BE AudioVAULT FleX automation system for your radio studio. *Stations qualify for a chance to win BE's new AVfleX studio automation*

system, including new capabilities such as remote voicetracking, interactive talent collaboration, work environment customization and advanced segue editor. Qualified candidates can submit their application along with compelling reasons why their station deserves a FleXtreme Makeover at www.bdcast.com/winAVfleX\_through June 1. On June 18, a panel of BE judges will mark BE's official anniversary date by selecting a winner based on a number of qualifications, including the most challenging operating environment and current studio conditions. AVfleX is BE's nextgeneration AudioVAULT studio automation system that raises the ante on studio integration and optimization. Interested broadcasters can stop by BE booth N7917 during the 2009 NAB show to see the AVfleX in action!

BE is the industry's largest radio-only equipment manufacturer exclusively serving radio broadcasters. The company was founded in 1959 as the inventor of the first cart machine. BE made history in 1965 as the first to introduce a multi-deck tape cartridge machine, and again in 1978, when it introduced the first microprocessor based program control system. BE's early forays into automation led up to an industry milestone in 1989, when BE introduced the first automation system based on the open PC platform, which several generations later carries the BE AudioVAULT brand.

Over the years, BE also made significant historical strides in RF transmission, starting in 1979 when the company introduced the first single-tube high powered FM transmitter. BE entered the highly competitive FM transmission market with a patented folded half-wave cavity design, the first of its kind capable of eliminating plate-blocking capacitors and sliding contacts. At the same time, BE designed an innovative FM exciter design that later developed into BE's FXi exciter line, which continues to lead the market in RF performance with the use of a direct-to-channel RF frequency generation design. During the 2000s, BE leveraged its intellectual capital to become the first to market with HD Radio products and soon after, developed and acquired technology for the introduction of new data services for HD Radio. Today, BE studio and RF products are used daily in thousands of radio facilities in nearly 100 countries.

Employees and customers who have shared in the journey of this 50-year-old industry icon will get a chance to celebrate BE's half-century mark at the NAB2009 convention in April, as well as at the company's manufacturing plant in Quincy, Illinois, on June 18, the official anniversary date of BE's incorporation.

#### About Broadcast Electronics (<u>www.bdcast.com</u>)

Broadcast Electronics (BE) is the premier provider of mission-critical solutions for over-the-air and Internet radio. BE products encompass program generation, audio and data management, inter-facility transport, and analog and digital transmission. For five decades, BE pioneering developments have set industry standards for innovation and reliability, while providing broadcasters with new options for operational productivity and income generation. BE is headquartered in Quincy, Illinois, and is represented worldwide by a network of local representatives.

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For Immediate Release March 25, 2009

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## Broadcast Electronics (BE) to Feature Groundbreaking Low Power FM Transmitter at 2009 NAB Show

### Company to mark its 50-year anniversary with a give-away of a 1kW STX LP, its newest and smallest all-around, scalable transmitter

**Quincy, Illinois, USA** – Broadcast Electronics' (BE) new STX line of low-power FM transmitters promises to stand out at the 2009 NAB Show as the newest, and smallest, member of the BE transmitter family with the power, the price and the proven reliability to achieve affordable opportunities in radio.

"We recognize that cost remains a key stumbling block for broadcasters wanting to move forward with HD plans, boosters or other similar applications. So we took the best that new technology has to offer and combined that with what we learned making transmitters for the past 40 years, and designed an affordable all-around transmitter for the 1 to 5kW power range that could make a huge difference," said Tim Bealor, Vice President of RF Products for BE.

Building on BE's 50-year legacy as a leading radio-only broadcast equipment manufacturer, the STX LP is the first all-around low power FM transmitter scalable from 1kW to 5kW with a starting price under US\$7,000. Standard STX LP features such as an emergency backup controller, internal exciter and IP connectivity make it an economical alternative as a main, backup, booster, single-frequency network or HD Radio<sup>™</sup> transmitter.

"For example, this is the first FM transmitter that is scalable and field upgradable. If you need a 1kW backup now but want to upgrade to 3kW or to 5kW later for, say, an HD Radio signal, you can do so easily. No need to go back again and ask for another transmitter when it's time for HD Radio," added Bealor.

The STX LP, introduced in January and weighing just under 40 pounds, is the latest to come out of the company's "lean" manufacturing initiative with the goal of bringing affordable and flexible hardware and software solutions to broadcasters. Other products resulting from BE's lean initiative are its new AudioVAULT FleX digital automation system and XPi 10esp HD Radio exporter with embedded signal

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processing introduced at NAB2008 for a 20 percent savings cost in HD Radio implementation.

The new STX LP 1kW transmitter fits a 3 RU block, and can be power upgraded in the field by simply adding PA modules. Transmitter modules are hot-pluggable, and the transmitter has automatic power protection to compensate for any power imbalances during continued operation. The STX LP includes IP connectivity for configuring and monitoring operation remotely from any laptop or PC, and is HD Radio compatible for eventual conversion to the digital radio standard.

The STX LP is designed with the same BE ingenuity as BE's AM Series, C Series, S Series and T Series transmitters in operation around the globe today, ensuring that the STX LP will stand up to harsh broadcast environments and provide broadcasters with years of service.

BE's transmitter line as well as studio lines will be shown at BE booth N7917 during the NAB show in April. Attendees can stop by the booth for a demonstration and to enter a drawing for a free STX LP 1kW transmitter give-away, which will be held at the BE plant immediately after the NAB convention. Broadcasters can also enter "BE's Oldest Operating BE Transmitter" contest at <u>http://www.bdcast.com/contest</u> through June 1 to qualify for a FREE STX LP transmitter. On June 18, 2009, a panel of BE judges will mark BE's official 50-year anniversary date by selecting a winner based on transmitter age, site conditions, and application, among other qualifications.

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For Immediate Release February 12, 2009

#### BE's New AudioVAULT FleX Goes "Gold"

## *New, widely-anticipated AudioVAULT released into production to assist broadcasters competing in the* 21<sup>st</sup> *Century*

**Quincy, Illinois, USA** – Broadcast Electronics' (BE) new AudioVAULT FleX digital media system is being released into production today, offering new resource allocation tools and studio networking capabilities to broadcasters competing in the 21st Century.

"The release of our new studio platform couldn't come at a better time as broadcasters face an increasingly competitive environment that requires them to do more with less," said Ray Miklius, BE's Vice President of Studio Systems, who delivered the "gold" or master CD of AudioVAULT FleX applications to production following months of beta testing by broadcasters in the field.

BE's AVFleX is the widely anticipated next-generation AudioVAULT studio automation system that raises the ante on studio integration and optimization. New capabilities such as remote voicetracking, interactive talent collaboration, work environment customization and advanced segue editor enable broadcasters to do more with less, while time-proven AudioVAULT programs at the application layer offer stations consistent, reliable studio performance.

With its release into production, the company will begin upgrading AudioVAULT licensees with new AVFleX features and begin fulfilling new AVFleX orders as early as the end of February.

BE AudioVAULT systems are complete digital media systems for live-assist or satellite operation, including scheduling and production modules for multi-track editing, music rotation and ad insertion. The new AVFleX platform offers these features as well as advanced features such as in-group program syndication, centralized music library management and multi-location workgroup collaboration. AVFleX is also the first studio platform of its kind with the flexibility and capacity for repurposing content and personalizing format channels for the Internet or over the air.

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BE will demonstrate its new AVFleX platform at booth N7917 during the 2009 NAB Show in April.

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For Immediate Release April 3, 2009

## Broadcast Electronics (BE) Introduces Twitter and Last.FM Data Applications

### Latest TRE Web 2.0 applications answer `what's next after establishing a station Web presence?'

**Quincy, Illinois, USA** – Once again, all eyes will be on Broadcast Electronics (BE) this NAB show as the industry's leading data and messagecasting system integrator demonstrates "scrobbling", "tweeting" and other useful Web 2.0 data applications for broadcasters.

New this year is a Twitter plug-in for BE's The Radio Experience (TRE) data management system that takes advantage of social networking to build online communities and connect stations to listeners on a whole new level. "This is the next step after establishing a station Web presence. In the last year, we've seen an explosion in the use of social networks like Twitter, especially by the younger demographics. CNN, the Red Cross and others are using Twitter to build communities, and now radio broadcasters can too with this add-on to our TRE system," said Ray Miklius, BE Vice President of Studio Systems.

With this plug-in and through the Twitter.com micro blog site, stations can broadcast "tweets" of contests and song and weather information to listeners on their cell phones or desktops. Listeners also can tweet their favorite station with song requests and send micro blogs of events in real time as an interactive participant in the station's social network. The Twitter application is a first in the industry, and is available as an add-on option for new as well as existing TRE systems in the field.

Also new this year for BE's TRE data management system is a Last.FM application that plugs into the Web 2.0 online music community to expand the station's role as a primary source of music discovery. With this TRE plug-in, stations can build a detailed profile of favorite songs for individual listeners using the Last.FM "autoscrobbler," an online function for tracking and cataloging listener song preferences. In addition to personalizing music for existing listeners and "befriending" new listeners, the Last.FM plug-in also tracks statistical data that will aid stations in targeting programming to their market base.

Last.FM and Twitter are the first to come out of BE's Web 2.0 initiative, a collection of TRE add-on applications and tools for connecting stations to listeners through social networking and other advanced online communities. Web 2.0 is a term often used to describe the movement of the World Wide Web away from static webpages to more dynamic, sharable content and communities.

BE's TRE is a suite of software and hardware for creating, scheduling and formatting text messages for distribution on RDS, HD Radio<sup>™</sup> or Web tuners. It is being used to interleave weather, sports and station ID text with song title and artist information as well as for advanced data applications such as digital mapping of navigational systems.

BE's TRE system was the first on the market to offer the iTunes tagging application for HD Radio broadcast, which now enables FM listeners to earmark their favorite songs playing on the air or over the Internet for purchase later via Apple's iTunes. Like the Web, TRE is continually expanding and evolving.

BE will demonstrate its full TRE data system, including new Web 2.0 add-ons, at booth N7917 during the 2009 NAB Show.

#### About Broadcast Electronics (<u>www.bdcast.com</u>)

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For Immediate Release February 25, 2009

## BE Classes Begin in March That Can Earn SBE Re-certification Credits

## Lead transmitter manufacturer draws upon 50 years of industry experience to offer professional courses on RF and HD Radio

**Quincy, Illinois, USA** – Broadcast Electronics, Inc. (BE), the world's leading radioonly equipment manufacturer of transmission and studio automation equipment, will begin offering engineering courses on RF principles and applications that can earn those in attendance recertification credit from the Society of Broadcast Engineers.

BE will launch its program with "RF Technology 101" starting March 23. The course is designed for entry-level engineers, managers of engineers and chief engineers wanting to upgrade their skills as well as IT professionals needing to learn more about RF technology. RF Technology 101 will cover RF basics, including classes of amplifiers, vacuum tubes, Smith Chart applications, passive components, quarter wave hybrids and TDR measurements as well as transmission line theory and analysis of resonant circuits in a lab environment.

The three and a half-day course will be repeated on September 28.

In addition, another course, "IBOC Technology 101", aimed at HD Radio <sup>TM</sup> technology and implementation, will be offered by BE on June 15 and again on November 9.

All courses will be held at BE's new RF lab in Quincy, Ill. Graduating participants of RF Technology 101 will qualify for three credits in category H toward their SBE Recertification.

"Professional RF training is desperately needed today as managers and engineers, especially those coming from an IT background, face new technical and operating challenges," said Doug Koehn, BE RF Technical Training Manager. "With almost 50 years of radio engineering leadership and development behind us, BE is in a unique position to help broadcasters develop a working understanding of RF."

Interested broadcasters can register for the March 23 RF Technology 101 course as well as subsequent BE training courses at <u>www.bdcast.com/training</u>.

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For Immediate Release February 6, 2009

## BE Webinar Highlights Economic Challenges as well as Triumphs in Radio Heartland

## Survival tactics, revenue sources and operating strategies discussed by radio operators in small- and mid-markets

**Quincy, Illinois, USA** – Small- and mid-market broadcasters spoke of economic challenges and triumphs during the Main Street Radio Town Hall webinar held by Broadcast Electronics (BE) Wednesday.

Station owners and operators Ron Davis from Montana, Larry Patrick from Wyoming and Bruce Goldsen from Michigan talked about advertiser incentives, doubling up staff duties, and operating more efficiently as a result of recent economic pullbacks.

"It was energizing to hear small-market broadcasters speak with one voice about getting back to basics and staying creative during difficult times. That is what drove the idea of a town hall - to share ideas that will keep our industry thriving," commented Debra Huttenburg, Vice President of Sales and Marketing for BE, which is addressing market concerns with its new affordable STX LP FM solid-state transmitter line and its AudioVAULT FleX studio automation system for streamlining operations.

The webinar was the second in a series of Town Hall webinars being sponsored by Broadcast Electronics for the purpose of sharing important industry information.

All three presenters offered encouragement and advice to their fellow broadcasters.

"This is a time to get creative. This is not a time to get scared," said Larry Patrick, who owns Legend Communications, which operates stations in Wyoming among other markets. "Every downturn yields opportunity," agreed Bruce Goldsen, who owns Jackson Radio Works, Inc., which operates News/Talk 970 WKHM, Hit Music K-105.3 and ESPN Radio 1450 WIBM in Jackson, Michigan.

The broadcasters cited new revenue opportunities arising from the decline of small town newspapers and the growing number of nontraditional radio advertisers such as medical professionals.

The time is right for small market broadcasters to "take ownership" of their communities, commented Ron Davis, the National Chairman of the Small Market Operators Caucus and Montana station owner who said his stations' earnings were up by as much as 7-1/2 percent in 2008 compared to the year before.

"We worked hard and got involved (in the community) and that really made us stand out," he said.

Other strategies shared during the hour-long webinar included targeting local merchants through event marketing, creating transaction web portals for building listener and advertiser loyalty and simplifying operations using the latest technology.

For anyone who missed the live webinar, the session is now available for playback from the BE website. This webinar, along with all archived webinars and information about upcoming webinars, can be found at <u>www.bdcast.com/webinars</u>.

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#### For Immediate Release February 27, 2009

## Broadcast Electronics (BE) Partners with Desbell Technology to Supply Transmitters to China Radio Market

#### Desbell to introduce BE transmitters, including new low power scalable FM transmitter, to China

**Quincy, Illinois, USA** – Broadcast Electronics, Inc. (BE) announced an agreement with Desbell Technology Co., Inc., today that will bring together world-class RF transmitters with expert system integration to benefit radio broadcasting in China.

Effective immediately, Desbell Technology, located in Beijing, will supply and support BE-authorized AM and FM transmission systems, including top quality solid-state FM and AM transmitters across a range of power levels and applications. The company also will support and represent BE's AudioVAULT, and TRE digital automation studio systems.

Desbell Technology is a leading broadcast integrator in China, with both the system integration expertise and digital as well as analog FM and AM product experience to advance the technology of radio broadcasters in China.

Broadcast Electronics is celebrating its 50<sup>th</sup> year as the largest manufacturer of radio-only broadcast equipment in the world, with RF systems and product representation in Asia, Europe, Africa, the Americas and the Middle East.

Both companies join efforts to introduce to China broadcasters BE's STX LP lowpower FM transmitter line scalable from 1kW to 5kW with integrated FM exciter, backup redundancy and IP connectivity in one chassis.

"This STX LP FM transmitter is the direct result of our customers coming to us and

asking for an affordable, reliable FM transmitter that could scale up or down in power as needed," said Tim Bealor, BE Vice President, RF Products. "In addition to ease of installation and maintenance, the STX LP requires much less rack space for overall lower cost of ownership."

In addition to analog AM and FM transmitters, BE is a licensed manufacturer of HD Radio transmitters and products. BE has supplied nearly half of the U.S. market with digital radio transmitters, and has introduced digital radio technology to other Asian markets, including China, Korea, Thailand, Indonesia, the Phillipines and Vietnam.

"BE transmitters are the best engineered transmitters in the world. To be able to support a product line of this quality, and to represent the best technology in the industry, is an honor to us and to our customers," said Yangqi Jin, General Manager for Desbell Technology Co., Ltd. "BE in past few years has provided their products on a specialized project basis in China. BE's latest STX product line is extremely price competitive, and we are excited to introduce these transmitters into the mainstream market."

"Desbell Technology brings the practical radio expertise and technical support that is so important to the success of any broadcast installation. Desbell's expertise in digital transmission will accurately represent our HD technology for upcoming field trials in conjunction with ABS and SARFT. We are pleased to add them to our team," said Frank Massa, BE's Asia Pacific Sales Manager.

Desbell Technology is located at:

B-21A, The Great Mall, Chaowaixiaozhuang 6# Chaoyang District, Beijing, 100026, China Phone: +86-10-82741772 ext. 601 Fax: +86-10-65919456 Website: www.desbell.com email: yangqi.jin@desbell.com

#### About Broadcast Electronics, Inc. (www.bdcast.com)

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#### About Desbell Technology, Ltd. (www.desbell.com)

Desbell is a dedicated system integrator and equipment provider specialized in the digital and analog AM/FM radio field. Located in Beijing, China, Desbell is involved in DAB, DRM and HD Radio technology as well as state-of-the-art AM and FM transmission.

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For Immediate Release October 15, 2008

#### **Broadcast Electronics (BE) Awarded Transmitter Contract by U.S.** Military

## Latest order for eight BE solid-state transmitters adds to the 16 BE transmitters acquired by the U.S. Military in as many months

**Quincy, Illinois, USA** - Broadcast Electronics (BE) announced today that it has been awarded a contract to supply the U.S Military with eight more solid-state FM transmitters for established bases in Europe and Korea.

This latest order for two BE FXi 250W exciters/transmitters, four BE FM 5C and two BE FM 100C solid-state transmitters adds to the 16 BE transmitters acquired by the U.S. Military in as many months.

"BE's relationship with the military goes back several decades. We are proud once again to support continued radio communications for those serving our country and to provide our military with the latest transmitter technology that will help them reduce operating costs and improve transmission performance," said Debra Huttenburg, BE's Vice President of Business Development and Marketing.

All total, more than 50 BE transmitters are in service in Europe, Korea and the Americas as part of the U.S. Army organization that manages the American Forces Network (AFN) Europe, AFN Korea, AFN Honduras and AFN Kwajalein. AFN broadcasts American radio and television to military personnel, Department of Defense civilians and their families serving across the globe.

In addition to transmitters, the U.S. American Forces also upgraded military broadcast studios with BE AudioVAULT digital media systems in 17 regions throughout Europe in recent years.

The new BE transmitters offer the latest in efficiency, redundancy and cost performance, and will replace existing transmitter installations in Italy and Korea.

Solid state transmitters from Broadcast Electronics have set the standard for audio quality, cost-efficiency, reliability and long life. BE transmitters feature proportional VSWR foldback for protecting the power amplifier by automatically reducing output power to a safe operating level. BE's FM solid-state transmitters also include optional standby

exciters, IPAs and power supplies that offer full power standby, eliminating the need for a backup transmitter.

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For Immediate Release

## Broadcast Electronics (BE) Supplies Turnkey Systems Worth US\$1 Million to Egyptian Radio & Television Union (ERTU)

**Quincy, Illinois, USA** – Engineers from Egyptian Radio & Television Union (ERTU) were at the BE plant in Quincy last week to finalize delivery of turnkey transmission and antenna systems valued in excess of US\$1 million.

The engineers attended BE's three-day training class on solid-state transmitter operation and approved the equipment for shipment.

Upon first inspection, the two customized, turnkey systems consisting of five BE FM 2C



solid-state FM transmitters in a 4+1 configuration (shown in background) exceeded stringent inspection criteria by Egypt's government-run broadcast organization. The equipment is bound for ERTU's transmission sites in Suez and Hurghada, Egypt.

Shown, from left to right in back: Doug Koehn, BE RF Technical Services Training Manager, with ERTU engineers Amr Farahat Selim Elsayed, Ahmed Fathi Mohamed El

Fares, Said Atta Mahmoud Ibrahim Asy and BE representative Ramez Adel Labib Fanous with Dabatco. Shown, from left to right in front: ERTU engineers Salem Shehata Salem Aly Harby, Mohamed Ez El Din Shehata Mohamed Shehata, Sanaa Gouda Abdel Moaty Mannaa and Rasha Mahmoud Ibrahim All Deghidy.

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## Engineered to Exceed Expectations

Introducing a low power, low cost solution with the quality and excellence you've come to expect from Broadcast Electronics!

BE's new STX LP becomes the first low power transmitter to effectively combine the quality, features and support you want at an exceptional value. As the most compact, feature-rich 1 kW FM transmitter on the market, the 3 rack unit design includes an integrated exciter, backup controller, IP connectivity and more.

With built-in features not found in competing models, BE saves you more than just the cost of additional external equipment. Smaller rack size, quicker installation and set-up times, reduced maintenance and future system expandability options puts you at a competitive advantage while ensuring overall system reliability.

#### **Designed to Last**

Leveraging proven BE technology, the STX LP gives low power stations a boost with an enhanced PA design, increased redundancy and extreme flexibility.

The truly scalable design accommodates both current and future system configurations, including main/alternate, FM booster, N+1 and low power HD Radio<sup>™</sup> applications, ensuring your purchase today will meet your needs tomorrow. As your station's needs change, so can your transmitter, saving you money on costly system upgrades.

## **Key Features & Benefits**

- Standard integrated exciter
- External input for use with optional external exciter
- Available in 1 kW, 3 kW and 5 kW versions
- Front panel control and metering via LCD interface
- Redundant fan design for extended system reliability
- IP Connectivity for anytime, anywhere access
- Internal low pass filter
- Built-in emergency backup controller for on-air redundancy
- Composite input with 2 SCA ports and 1 RDS port
- Optional stereo generator for additional input options
- Designed for reliability and serviceability
- Quick and easy setup to get you on the air faster



Broadcast Electronics, Inc. • 4100 North 24th Street, P.O. Box 3606, Quincy, Illinois 62305-3606 U.S.A. Telephone: (217) 224-9600 • Fax: (217) 224-9607 • E-Mail: bdcast@bdcast.com • www.bdcast.com

World Radio History





NEW

## **Quick Tech Specs**

1100 W FM Max Output Power 65% or Better Efficiency 5.25" H x 19" W x 26" D 40 lbs (18 kg) 1.5:1 VSWR Accuracy ±5% .98 Power Factor

## STX LP 1 kW FM Low Power Transmitter

## Improving Low Power FM Profitability

#### Enhanced design increases overall efficiency & reliability!

- Utilizes a proven power amplifier design that eliminates troublesome splitting and combining stages
- Compact, 3 RU saves valuable space while providing quick and easy setup & maintenance
- Four RF power transistor layout for increased reliability
- Less heat dissipation reduces cooling and ventilation costs
- Self-contained power supply for a wide range of inputs
- Internal low pass filter
- Bonded Fin heatsink technology for enhanced cooling

#### On air redundancy protects your revenue stream!

- Full on air redundancy provides for low maintenance
- Highly efficient cooling system with redundant fans extend transistor life
- Built-in backup controller in the unlikely event of a failure
- Built-in exciter with additional external input option provides increased system redundancy
- Minimum to no down time means you'll consistently maintain revenue generation

#### FM digital fidelity!

- Integrated exciter provides exceptional analog audio
- External exciter input for flexible analog or digital operation
- Upgradable to digital FXi 60/250esp exciter for enhanced audio performance
- Optional plug-in stereo generator module for AES and L&R

#### Scalable architecture fits all your low power needs!

- Scalable design allows 1 kW, 3 kW and 5 kW configuration
- Cost efficient and simple upgrade path with the addition of auxiliary units and splitter/combiner

#### Plans to go digital? We're ready when you are!

- Accommodates both current and future versions of HD Radio
- Provides the flexibility of changing transmission between analog only, analog+HD, and HD only modes on the fly either locally or remotely
- Cost efficient upgrade path with the addition of the FXi ESP digital exciter and XPi ESP embedded exporter
- Designed with digital in mind

#### Flexible & accurate control!

- Reliable microprocessor based controller allows remote software access to monitor all of the operating parameters
- Intuitive user interface via front panel LCD controller
- IP connectivity allows anywhere, anytime access to transmitter controls
- Automatic power control maintains the transmitter within 5% of its programmed output power, ensuring you're operating within authorized limits at all times

Taking the next step is easy with Broadcast Electronics. Get in touch with your sales representative today to discuss solutions that will work for you and your station(s). To contact your BE sales representative, simply visit our website at bdcast.com or call 217.224.9600 and learn more about what BE has to offer.

BE is the premier provider of mission-critical solutions for over-the-air and Internet radio. Our products encompass program generation, audio and data management, interfacility transport and analog and digital (HD Radio and DRM) transmission. They are used daily in more than 10,000 installations in nearly 100 countries.

For fifty years, BE pioneering developments have set industry standards for innovation and reliability, while providing broadcasters with new options for operational productivity and income generation.

BE is headquartered in Quincy, IL, and is represented worldwide by a network of local representatives.



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World Radio History

Tomorrow's Radio Today

STX LP 5 kW FM Low Power Transmitter

Engineered to Exceed Expectations

Introducing a low power, low cost solution with the quality and excellence you've come to expect from Broadcast Electronics!

BE's new STX LP becomes the first low power transmitter to effectively combine the quality, features and support you want at an exceptional value. As the most compact, feature-rich 5 kW FM transmitter on the market, the 19 rack unit design includes an integrated exciter, backup controller, IP connectivity and more.

With built-in features not found in competing models, BE saves you more than just the cost of additional external equipment. Smaller rack size, quicker installation and set-up times, reduced maintenance and future system expandability options puts you at a competitive advantage while ensuring overall system reliability.

#### **Designed to Last**

Leveraging proven BE technology, the STX LP gives low power stations a boost with an enhanced PA design, increased redundancy and extreme flexibility.

The truly scalable design accommodates both current and future system configurations, including main/alternate, FM booster, N+1 and low power HD Radio<sup>™</sup> applications, ensuring your purchase today will meet your needs tomorrow. As your station's needs change, so can your transmitter, saving you money on costly system upgrades.

## **Key Features & Benefits**

- Standard integrated exciter
- External input for use with optional external exciter
- Available in 1 kW, 3 kW and 5 kW versions
- Front panel control and metering via LCD interface
- Redundant fan design for extended system reliability
- IP Connectivity for anytime, anywhere access
- Internal low pass filter
- Built-in emergency backup controller for on-air redundancy
- Composite input with 2 SCA ports and 1 RDS port
- Optional stereo generator for additional input options
- Designed for reliability and serviceability
- Quick and easy setup to get you on the air faster



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World Radio History

5000 W FM Max Output Power 57% or Better Efficiency 33.25" H x 19" W x 26" D 250 lbs (113 kg) 1.5:1 VSWR Accuracy ±5% .98 Power Factor

Quick Tech Specs

16 - D



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# STX LP 5 kW

FM Low Power Transmitter

## Improving Low Power FM Profitability

#### Enhanced design increases overall efficiency & reliability!

- Utilizes a proven power amplifier design that eliminates troublesome splitting and combining stages
- Compact, 19 RU saves valuable space while providing quick and easy setup & maintenance
- Four RF power transistor layout for increased reliability
- Less heat dissipation reduces cooling and ventilation costs
- Self-contained power supply for a wide range of inputs
- Internal low pass filter
- Bonded Fin heatsink technology for enhanced cooling

#### On air redundancy protects your revenue stream!

- Full on air redundancy provides for low maintenance
- Highly efficient cooling system with redundant fans extend transistor life
- Built-in backup controller in the unlikely event of a failure
- Built-in exciter with additional external input option provides increased system redundancy
- Minimum to no down time means you'll consistently maintain revenue generation

#### FM digital fidelity!

- Integrated exciter provides exceptional analog audio
- External exciter input for flexible analog or digital operation
- Upgradable to digital FXi 60/250esp exciter for enhanced audio performance
- Optional plug-in stereo generator module for AES and L&R

#### Scalable architecture fits all your low power needs!

- Scalable design allows 1 kW, 3 kW and 5 kW configuration
- Cost efficient and simple upgrade path with the addition of auxiliary units and splitter/combiner

#### Plans to go digital? We're ready when you are!

- Accommodates both current and future versions of HD Radio
- Provides the flexibility of changing transmission between analog only, analog + HD, and HD only modes on the fly either locally or remotely
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- Designed with digital in mind

#### Flexible & accurate control!

- Reliable microprocessor based controller allows remote software access to monitor all of the operating parameters
- Intuitive user interface via front panel LCD controller
- IP connectivity allows anywhere, anytime access to transmitter controls
- Automatic power control maintains the transmitter within 5% of its programmed output power, ensuring you're operating within authorized limits at all times

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World Radio History

Tomorrow's Radio Today



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Introducing a low power, low cost solution with the quality and excellence you've come to expect from Broadcast Electronics!

BE's new STX LP becomes the first low power transmitter to effectively combine the quality, features and support you want at an exceptional value. As the most compact, feature-rich 3 kW FM transmitter on the market, the 13 rack unit design includes an integrated exciter, backup controller, IP connectivity and more.

With built-in features not found in competing models, BE saves you more than just the cost of additional external equipment. Smaller rack size, quicker installation and set-up times, reduced maintenance and future system expandability options puts you at a competitive advantage while ensuring overall system reliability.

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## **Key Features & Benefits**

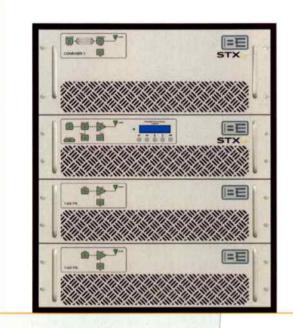
- Standard integrated exciter
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- Internal low pass filter
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World Radio History





NEW

## **Quick Tech Specs**

3000 W FM Max Output Power 57% or Better Efficiency 22.75" H x 19" W x 26" D 170 lbs (77.1 kg) 1.5:1 VSWR Accuracy ±5% .98 Power Factor

# STX LP 3 kW

FM Low Power Transmitter

## Improving Low Power FM Profitability

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Tomorrow's Radio Today



Every year, we look forward to seeing you at the NAB show and catching up on the latest news in the business. This NAB is a particularly reflective time for us at BE as we enter our 50<sup>th</sup> year serving radio broadcasters. It is an important milestone for us and a celebration for everyone who has shared in the radio journey, most especially our trusted reporters, editors and contributors. Thank you for your dedication and service to this great industry of ours! We hope to see you at the **BE booth N7917** this NAB, and look forward to many more years of radio discovery and successes to come.

As always, we have enclosed a CD with press releases, photos and product brochures that we hope is helpful in your coverage of the show. A recap of the news released by Broadcast Electronics leading up to and during the show follows:

- How the **STX LP low-power transmitter is removing a major cost barrier** for broadcasters wanting to move forward with synchronous FM or HD Radio plans.
- What BE found out about broadcasting in the heartland. (Hint: it's not all bad news. Read about our webinar.)
- Why broadcasters are breaking the rules that once restricted radio to the same old automation routines and how **BE's new AudioVAULT FIeX digital system is** letting talent get up close and personal to content and resources.
- What's next for stations that have established a Web presence? Check out the latest **Web 2.0 applications for BE's TRE messagecasting** system...
- ...including **new Twitter** TRE application. Radio stations can join the world of social networking and "tweet" song information to listeners' desktops and cell phones.
- ...and **new Last.FM** TRE application, so radio stations can plug into the Web 2.0 online music community and expand their role as the primary source of music discovery.

Sincerely,

Lin Winking

Kim Winking Marketing Services Manager 217-224-9600 kwinking@bdcast.com