



Tomorrow's Radio Today



BE HD Radio®

Broadcast Electronics' HD Radio® product line has been the choice for a majority of the digital radio stations in the U.S. and a large number of broadcast facilities overseas. Operating efficiency, easy configuration and on-the-fly operability are just a few of the reasons why.

Configurable for FM, FM+HD or HD only

Cost-effective implementation

Advanced non-linear correction

Integrated exciter with pre-correction

Plug-in HD® Radio Engine

Embedded design to improve reliability

Automatic or manual diversity delay

Frequency agile

Powerful features in a small footprint

Easy to use, advanced instrumentation

Multicast and datacast ready

Spectral plot with STXe series exciters

Access GUI from Windows, Mac, or Linux

Backward compatible with older exciters

HD Radio® Exporter XPi 10esp



The **XPi 10esp** embedded exporter offers the latest in the development of HD Radio™, increasing overall reliability and functionality for stations broadcasting HD.

The **IDi-50** Importer provides radio stations multicasting capabilities (HD2, HD3 and HD4). The **VPE-G3** plug-in board provides unparalleled non-linear and linear pre-correction for all models of transmitter.

HD Radio® Importer IDi-50



Vector Power Enhancement (VPE G3)





Advantages of HD Radio®

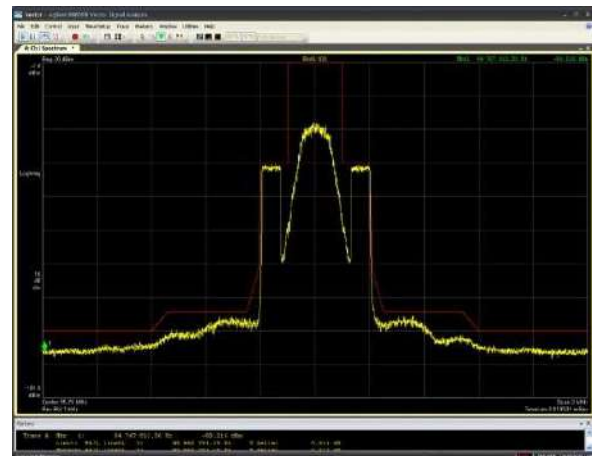
- Multicasting: HD2, HD3 and HD4
- Higher quality sound: deeper bass, higher treble, more stereo separation, and a greater dynamic range
- No additional charges for the listener
- Digital reception, no static, hiss, or fuss.
- Better on-screen information such as: album art, artist and song info, traffic, and weather.



Advantages of Broadcast Electronics

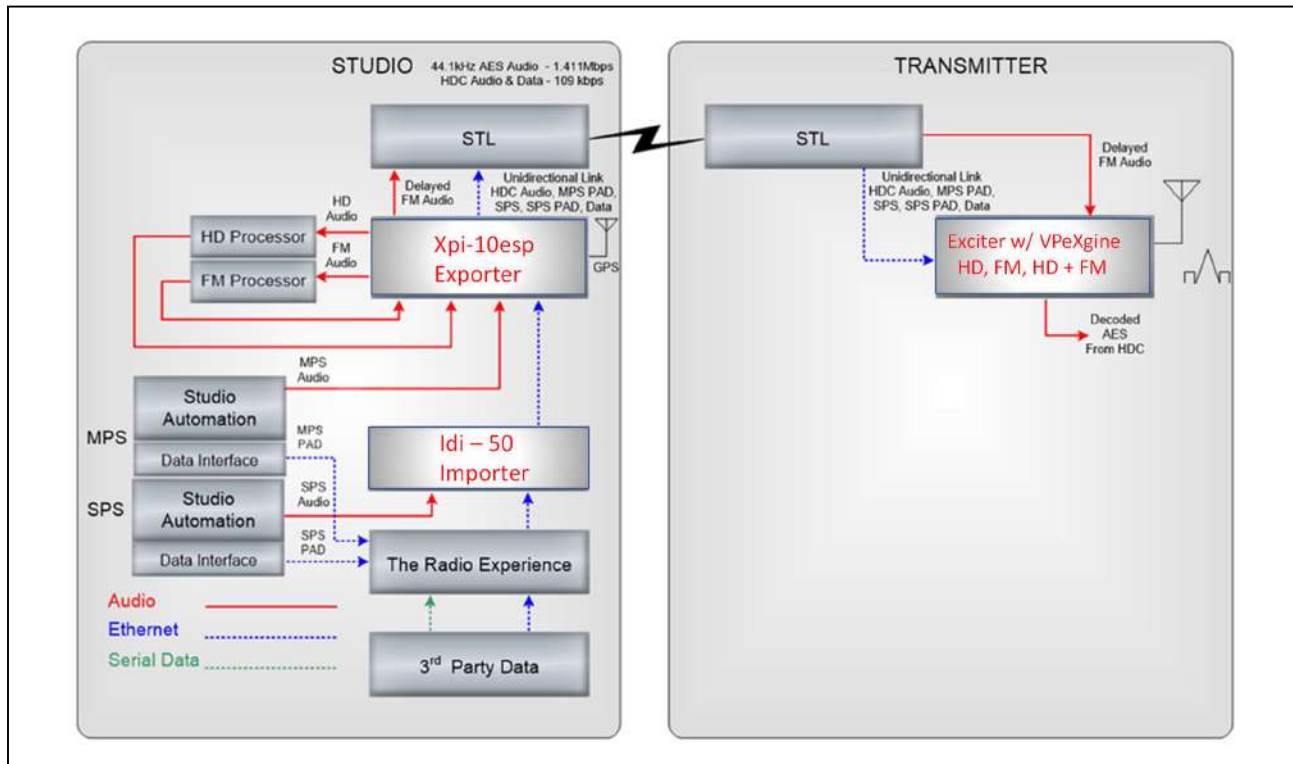
HD Radio® equipment

- Vector Power Enhancement (VPe)™ technology
- Full range of HD Radio power levels
- Provides a spectral plot of your signal with the STXe series exciters
- High efficiency, even at high HD power levels
- Entire “STX” transmitter line is HD Radio compatible
- All products developed, manufactured, and supported by Broadcast Electronics
- Industry recognized BE Technical Support system (24/365 support)





System Schematic



More BE Features

- AES SOURCE (96, 48, 44.1, or 32KHz)
- Analog Audio Delay ~8 seconds
- GPS Receiver Integral to XPI 10esp
- Spectrum Analyzer for Evaluating Spectral Performance
- Power Control (PAV Constant, Exciter Drive Changes)
- Ethernet Connectivity for Data
- Embedded Solution
- Most past BE Exciters are Fully Upgradeable
- AES output can be used as primary audio source or backup
- Facilitates point to multipoint applications, booster, and translators
- Built in Delay for Booster Applications



THE RADIO EXPERIENCE



- Auto formats PAD data from automation system
- Inject promotional and advertiser messages
- Powers TagStation, Commotion, TuneIn and many other data services
- Full suite of tools to create, manage, and track metadata

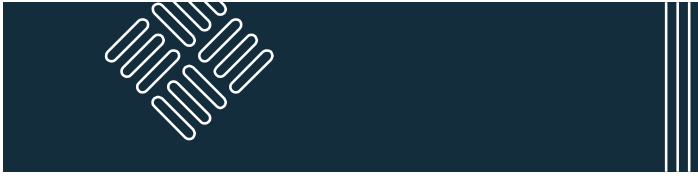
Program Associated Data (PAD)

- Now Playing Title/Artist
- MPS PAD, SPS1 PAD, SPS2 PAD Formatted for HD Radio
- Schedule additional ID3 Tag Elements for Broadcast
- Scheduling for Near PAD, Non-PAD Messages
- Program Identifiers, Weather Bulletins, Traffic
- Supports Live Stream PAD
- Interface for 3rd Party Data
- Support for RDS, Web Publishing

On-Line Components

- PAD Clean-up (Title/Artist, Album Art)
- Event Logging

HD Radio®



Taking the next step is easy with Broadcast Electronics. Contact 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 manufactures complete RF systems for radio and TV. 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 40,000 installations in nearly 100 countries. For over sixty 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, Illinois, USA, and is represented worldwide by a network of local representatives.

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