

FMi Series Transmitters

Solid State FM+HD Radio Transmitters

A Sound HD Investment

FMi Series HD Radio™ transmitters from Broadcast Electronics allow you to reinvest in your current station's operations while taking advantage of the additional benefits digital radio has to offer.

The FMi Series Solid State transmitters come standard with our new, exclusive VPe technology. With VPe, you receive adaptive pre-correction, elevated HD injection levels, and improved efficiencies. With the addition of our 3rd generation Xpi 10esp embedded exporter, you receive unparalleled performance from your HD transmitting system.

FMi Series transmitters even help broadcasters make the transition to digital technology, capable of switching between FM, FM + HD and HD only mode with ease, providing the most flexibility in the market today. On the fly mode changes allow you to maintain your analog signal while developing the data and multicasting opportunities associated with HD Radio technology, switching to digital only when you're ready.

Available in power levels up to 14 kW in FM+HD mode and 5.6 kW in HD only mode, the FMi Series transmitters fit all your operational needs. A sound investment today and guaranteed to save valuable money, time and resources in the future.

Key Features & Benefits

- Operation modes of FM, FM + HD Radio and HD Radio only
- Comes standard with the FXi 60 or 250 digital exciter
- Comes standard with VPe for -14dBc and -10dBc HD injection levels and adaptive pre-correction
- Integrated audio bypass operation to ensure integrity of analog audio path
- Redundant solid-state RF modules
- True proportional VSWR foldback
- Direct to channel digital frequency synthesis
- Frequency agile to cover the entire FM band
- Redundant power supplies for zero loss in output power



Model FMi 703 shown

Model	Description
FMi 31	350 W FM+HD Radio/140 W HD Only
FMi 73	700 W FM+HD Radio/280 W HD Only
FMi 106	1.4 kW FM+HD Radio/560 W HD Only
FMi 201	2.1 kW FM+HD Radio/840 W HD Only
FMi 301	2.8 kW FM+HD Radio/1.2 kW HD Only
FMi 402	3.5 kW FM+HD Radio/1.4 kW HD Only
FMi 703	7 kW FM+HD Radio/2.8 kW HD Only
FMi 1405	14 kW FM+HD Radio/5.6 kW HD Only



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Improving FM Profitability

NEW VPe, Vector Power Enhancement, for improved performance and increased HD injection levels!

- Achieves higher power IBOC injection levels of -14dBc or -10dBc
- Proprietary crest factor reduction scheme reduces peak-to-average ratio and increases analog output power capability
- Improves overall transmitter efficiency at higher HD power levels
- Dynamic correction continuously monitors the RF output of the transmitter system, optimizing operation under abnormal conditions
- Continuous monitoring provides "ease of mind" knowing the system is maintaining optimal performance and spectrum purity, minimizing maintenance and site visits

One transmitter for all your operational needs!

- On the fly mode changing allows your station to operate in FM only mode, switching to FM+HD or HD only mode as the need arises
- Switching between modes with ease provides the most flexibility on the market today
- Plans to go digital? Maintain your analog signal while developing Messagecasting and multicasting opportunities that allow you to take full advantage of HD Radio technology

Increased efficiency leads to lower operating costs!

- Increased efficiency through the use of VPe digital adaptive pre-correction technology
- Full on air redundancy provides for low maintenance
- Less heat dissipation reduces cooling and ventilation costs

On air reliability protects your revenue stream!

- All power amplifiers operate independently, maintaining 95% power output even with a failed PA
- On air repair/replacement of modules can be performed when convenient for you
- Auto switching IPA module available for increased redundancy
- Highly efficient, individual redundant power supplies with optional standby on-line spare results in zero loss of output power
- Full RF module diagnostics provided without the need for additional access cards
- Removable front panel provides immediate access to every major assembly in the unlikely event of a problem
- Minimum to no down time means you'll consistently maintain revenue generation

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 studio automation and complete RF systems for radio. Our products encompass AM, FM and HD Radio transmitters as well as studio systems for managing programming and interacting with mobile listeners. They are used daily in more than 10,000 installations in nearly 100 countries.

For over 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, Illinois, and is represented worldwide by a network of local representatives.

