

# FMi T Series Transmitters

## Tube FM+HD Radio Transmitters

### Monetize Your HD Investment

The FMi T Series transmitters from Broadcast Electronics represent the best of high power FM+HD Radio™ single tube transmitters. Setting a standard for overall cost-efficiency, reliability and long life, the FMi T Series helps you monetize your HD transmitter investment.

Our patented folded half-wave cavity provides outstanding performance and superior reliability. Designed for on air reliability, FMi T Series transmitters eliminate plate blocking capacitors, output coupling capacitors and sliding contacts, avoiding the most common causes of transmitter failures.

With VPe, Vector Power Enhancement, BE provides a unique solution for digital adaptive pre-correction, achievement of elevated HD power levels, and second to none transmitter efficiency. The FMi T Series provides all of the tools necessary to achieve the best HD transmitter performance and reliability while providing the best value at higher power levels.

Available in power levels up to 50 kW with dual-combined systems, the advantages of the FMi T Series from BE are unparalleled, saving you valuable money, time and resources, now and in the future!

### Key Features & Benefits

- Total Power Output up to 25 kW for FM+HD Radio operation from a single tube FMi T Series transmitter
- VPe provides -14dBc and -10dBc HD injection levels and adaptive pre-correction
- The patented folded half-wave cavity eliminates troublesome and unreliable DC plate blocking capacitors and all sliding RF contacts
- True proportional VSWR foldback protects the transmitter under all antenna load conditions
- High-volume, low-pressure air flow improves heat transfer while reducing ambient noise
- Linear IPA with VSWR, over-temperature, over-voltage, over-current protection and fault detection
- Complete built-in remote control interface results in convenient use of all current remote control systems



Model FMi 21T shown

Model	Description
FMi 17T	17.5 kW Tube FM+HD Transmitter
FMi 21T	21 kW Tube FM+HD Transmitter
FMi 25T	25 kW Tube FM+HD Transmitter
FMiD 34T	34 kW Dual-Combined Tube FM+HD Transmitter
FMiD 42T	42 kW Dual-Combined Tube FM+HD Transmitter
FMiD 50T	50 kW Dual-Combined Tube FM+HD Transmitter



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### Improving FM Profitability

#### Increased efficiency leads to lower operating costs!

- Less heat dissipated into the facility reduces cooling and ventilation costs
- Longest tube life in class saves you money on costly replacements

#### Setting the Standard!

- Proven FMi T transmitters represent a new generation for high power FM+HD single tube transmitters, setting the standard for audio quality, cost efficiency, reliability and long life

#### Flexible & Accurate Control!

- Reliable microprocessor based controller allows remote software access to monitor all of the operating parameters
- Metering of more transmitter parameters than any other transmitter manufacturer provides
- Automatic power control maintains the transmitter within 2% of its programmed output power, ensuring you're operating within authorized limits at all times
- Second "preset" power level available at the press of a button
- RTDS remote control provides immediate access to computer control and diagnostics
- True proportional VSWR foldback protects the transmitter under all antenna load conditions

#### NEW VPe, Vector Power Enhancement, for 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

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

- Patented Folded Half-Wave Cavity design eliminates common failures found in other cavity designs
- Largest tube in class provides 41% more effective cooling area for the best performance under high ambient air temperatures
- No plate blocking capacitor and no sliding contacts in cavity eliminates common threats of transmitter failure
- Tuning and loading controls at zero DC Potential, along with no output coupling capacitor, maximizes lightning protection
- Built-in broadband neutralization results in easy tube exchanges and eliminates neutralization of tube replacement
- 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](http://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.

