

# S Series Transmitters

## FM Analog Solid State Transmitters

### Engineered for Reliability

A solid combination of performance, reliability and ease of service define the S Series Solid State FM transmitters from Broadcast Electronics.

The S Series transmitters perform like no other transmitter in the industry. Featuring true proportional VSWR foldback, the S Series provides extensive redundancy and includes a protection system that keeps your signal on the air in the most extreme conditions.

Designed with digital in mind, S Series transmitters will take you into the future, accommodating both current and future versions of HD Radio™ technology. The S Series provides a cost effective and convenient solution, ready for upgrade when you are.

The S Series Solid State FM transmitters represent just one of Broadcast Electronics' many solutions for all your radio needs.

### Key Features & Benefits

- All RF modules, main and optional standby IPA's, are removable from the front of the unit
- 95% of full power maintained into a normal load with one module removed
- Redundant power supplies keep the transmitter on air even with a failed power supply
- Optional standby power supply provides full power operation with one supply removed
- Full module operating parameters are displayed on the front panel
- Highly developed, highly efficiency cooling system extends transistor life
- True proportional (VSWR) foldback keeps the transmitter on air even in the worst conditions
- Removable and replaceable modules without perceptible carrier interruption
- Amplifier pallets can be replaced in the field without retuning
- Frequency agile, N+1 compatibility provides an automatic back-up for up to 10 signals anywhere in the band
- Optional integral standby exciter and IPA provide automatic change over
- Available with new, optional FXi 60/250esp digital exciter



Model FM 10S shown with optional FXi 250esp digital exciter

Model	Description
FM 10S	10 kW Solid State FM Transmitter
FM 20S	20 kW Solid State FM Transmitter
FMD 40S	40 kW Dual-Combined Solid State FM Transmitter



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## Solid State Analog FM Transmitters

## Improving FM Profitability

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

- Designed with analog and digital in mind, providing an easy upgrade path when the time comes
- Accommodates both current and future versions of HD Radio
- Provides the flexibility of changing transmission between analog only mode and analog+HD mode
- Cost efficient upgrade path with addition of the XPi 10esp embedded exporter and plug-in Engine module

### Increased efficiency leads to lower operating costs!

- Full on air redundancy provides for low maintenance
- Less heat dissipation reduces cooling and ventilation costs
- Highly efficient cooling system with redundant fans extends transistor life

### N+1 system configuration eliminates the need to purchase multiple backups!

- Linear broadband RF modules provide N+1 configuration for any mode of operation
- N+1 configurations are front panel, remote control or IP selectable
- Optional FXi 60/250esp digital exciter selects the frequency, operating mode, audio source and output power, making multiple station operations simple

### On air reliability protects your revenue stream!

- All power amplifiers operate independently, keeping you on air even with a failed module
- Repair/replacement of modules can be performed when convenient for you- without taking your station off the air
- In the case of an IPA failure, any PA module can quickly become an IPA module
- Highly efficient, individual redundant power supplies control each amplifier and an 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

### FM Digital Fidelity!

- Upgradable to Digital FXi 60/250esp exciter for enhanced audio performance
- Digital on-channel RF frequency generation for superior RF and audio operation
- Built-in stereo generator with "look ahead" processor provides the loudest and cleanest audio in the market

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](http://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 more than four 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, IL, and is represented worldwide by a network of local representatives.

