



# CROWN BROADCAST

## E Series Transmitters 100W to 2kW



- **Direct to Channel Digital FM Transmitter**
  - **TCP/IP, SNMP Management**
  - **Advanced Metering Interface**
    - **24/7 Service/Support**
- **3-Year Warranty Extendable to 10-Years\***
  - **From 100 watts to 5kw**
  - **Efficient Cost-Effective Solution**

The Crown Broadcast E-Series offers the newest in technology to ensure the most high quality and flexible FM Broadcast transmitter on the market. With a built-in direct-to-frequency digital exciter, the E Series transmitters will be among the best sounding, most highly flexible products available to the broadcaster. The new E series offers product levels from 100 watts up to 10kW's making for a very highly-featured cost-effective solution for the broadcaster.

Additional features on the E-Series include: built-in dynamic RDS encoding, FM limiter, Digital Stereo Generator, user adjustable FSK identification and full command and control via Web Server, SNMP, RS232 or GPIO's.

All service and support will be exactly the same as enjoyed by our current Crown Broadcast customers of our Classic line. The E-Series is available in power levels from 100 watts to 10kW's.

**CROWN BROADCAST**  
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# Crown E Series Transmitters

## Features and Benefits at a Glance

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**Power Levels**—100W, 300W, 750W, 1kW, 1.5kW, 2kW with higher powers available up to 10kW

**Warranty**—3-Year standard, upgradable to 10 years with EMR plan.

**Overall Efficiency**—Up to 74%

**Frequency Range**—87.5 to 108 MHz in 10 kHz steps

**Inter-modulation distortion**—0.02% Typical

**FM S/N Ratio**—>80dB

**Typical AM Noise**        65dB RMS (20W/100W)  
                                     75dB RMS (>350W)

**Bandwidth**—0.05 dB

**Stereo Separation**—65 dB

**Preemphasis**—0, 50 or 75 microseconds adjustable

**Audio Inputs**—Analog and/or AES up to 192 kb/s @ 16, 24 32 bits

**MPX/SCA Inputs**—2 BNC Type

**Approvals**—FCC Certified up to 1kW, FCC Approval >1kW, Industry Canada and CE

**Stereo Encoder**—Built-In

**Silent Detection**—Yes with Built-In failover

**Remote Control**—Yes via Web Server, SNMP, RS 232C, GPIO

**RDS Encoder**—Yes Dynamic

**FSK Ider**—Yes adjustable from front panel

**Limiters**—Yes with MPX power control (ITU-R 412)

**Metering and Reporting**—available via internet or network

**Redundancy**—Yes N+1, 1+1

**Size 100W & 300W**—2 RU

**Size 750W to 2kW**—3RU

**Depth 300W, 750W and 1kW**—17 Inches

**Depth 1.5kW and 2kW**—26.4 Inches

**Weights**—

100W = 27.55lbs

250W = 27.55lbs

750W = 28.66 lbs

1000W = 30.86 lbs

1500W = 39.68 lbs

2000W = 44.1 lbs

**Digital Modulator**—”direct to frequency” digital modulator for ultra clear audio quality.

**Advanced Measurement Interface**—Allows the end user to consult a real-time dashboard that provides an at-a-glance overview of the transmitter performance. Built-In instrumentation enables detailed analysis of the RF Spectrum, MPX Spectrum, Audio Spectrum and Peak Meters. All displayed simultaneously in a clear and easy-to-understand format.

**TCP/IP: Web + SNMP Interface**—Added as option to base E Series transmitters, the TCP/IP communication board offers an intuitive Web-based interface for remote monitoring and control, and support for the SNMP protocol including access to MIB files. In addition, the TCP/IP board supports capabilities like Advanced Measurement Interface and Expert Maintenance Reporting.

**Expert Maintenance Reporting**—A proactive reporting service available to monitor the status of key parameters such as temperatures, currents and voltages, plus performance parameters of lifespan constricted items such as the fan and power supply of the transmitters. The firewall-friendly web protocol works securely over a regular Internet connection.

**Dynamic RDS Encoder**—The built-in RDS Encoder offers an exceptional value to the end user and offers all the functionality of external products for a fraction of the price. Used as the main Encoder or as a back up to your main Encoder thanks to SCA input loss detection plus automatic internal RDS activation. Supports PI, PS, TP, TA, MS, PTY, PTYN, DI, AF, RT with easy set up via RS232 software or Web.

**Best-in-Class Crown Service and Support**—The E series units will be serviced and supported with all the same contacts and phone numbers and email addresses that you currently use. Service and Support is available 24/7 365 days per year. Sales will be through our normal sales network so contact your favorite Crown Broadcast dealer for pricing and availability.

**Powered by Ecreso**—Crown Broadcast is excited to be the exclusive source of Ecreso Transmitters in the United States. Ecreso is part of WorldCast Systems headquartered in Bordeaux, France. WorldCast Systems also owns APT, a well-known manufacturer of IP Audio Codecs, and Audemat, a well-known highly-respected producer of RDS and test and measurement devices.

**Optional 10-Year Warranty**—Crown customers who subscribe to Ecreso’s exclusive Expert Maintenance Reporting service for a minimum of 1 year and continued connection to the Internet will receive a full 10 Years of Warranty peace of mind. EMR will deliver reports on the status of parameters such as temperature, current and voltage as well as the performance and lifespan of components such as the fan and power supply of the transmitter.