

## DTV Broadcasting

### Digital Television Transmitters



2.5 kW Model Shown

- All Digital TV Transmitters are available in 8VSB Standard (U.S.) or in any other DTV Standard for other countries.
- All Solid State Digital TV Transmitters are modular
- Custom Power Levels are available upon request for any power level
- High Performance built-in Modulator 8VSB (US) or COFDM (Europe)
- Advanced MOSFET and LDMOS technology
- Air and liquid cooling models
- Overload, Excessive VSWR, Excessive Heat, Cooling System failure, Out of Range, Overload and Incorrect operator intervention Protections
- Metering of all parameters
- Manual or microprocessor controlled operation
- Full remote control via parallel and serial interfaces
- Automatic Output Level Control, AGC controlled muting in the absence of IF input or loss of local oscillator lock, Soft Start
- Meets or exceeds all FCC (8VSB Models) or CCIR (COFDM Models) requirements

## SPECIFICATIONS

### Inputs:

SMPTE 310

### Modulation Error Rate:

Better than 32 dB

### Spurious, Harmonic and Out of Channel

#### Intermodulation Products:

≤ - 60dB (with output filter)

#### Intermodulation Products (shoulders just outside channel edges):

≤ - 35 dB referred to emission channel center (custom masks available)

#### Intermod Products at adjacent channel center frequencies:

≤ - 46 dB referred to emission channel center (custom masks available)

### Frequency Stability:

Better than ± 250 Hz (optional external reference to GPS for better than 1 Hz stability)

### Standards/channels available:

All VHF or UHF channels for 8VSB or COFDM digital standards

### Cooling:

Optional air or liquid cooling on all models except models under 500 W (air cooled only)

### Environmental Data:

Temperature range: -5 to 45 °C  
Max humidity: 90% non condensing  
Max altitude: 2,000 m. ASL (others on req.)

### Output Connector:

Models up to 150 W, "N" Type Female  
Models 250 W through 1500 W, EIA 7/8" Flange  
Models 2 kW through 5 kW, EIA 1 5/8" Flange  
Models 7.5 kW and up, EIA 3-1/8" Flange

### Output Impedance:

50 Ohm

### AC Power Requirements:

208/240 V. Single Phase for models up to 250 W  
208 / 240 V. Three Phase for models 300 W & up  
(Single Phase on request / C.F.) 50-60 Hz

### Solid State UHF & VHF Model Types / Power levels:

DTV10 / 10 W (specify if UHF or VHF)  
DTV25 / 25 W (specify if UHF or VHF)  
DTV50 / 50 W (specify if UHF or VHF)  
DTV100 / 100 W (specify if UHF or VHF)  
DTV150 / 150 W (VHF model only)  
DTV250 / 250 W (specify if UHF or VHF)  
DTV300 / 300 W (specify if UHF or VHF)  
DTV350 / 350 W (VHF model only)  
DTV400 / 400 W (UHF model only)  
DTV500 / 500 W (specify if UHF or VHF)  
DTV1000 / 1000 W (specify if UHF or VHF)  
DTV1500 / 1500 W (specify if UHF or VHF)  
DTV2000 / 2000 W (specify if UHF or VHF)  
DTV2500 / 2500 W (specify if UHF or VHF)  
DTV3000 / 3000 W (specify if UHF or VHF)  
DTV4000 / 4000 W (specify if UHF or VHF)  
DTV7500 / 7500 W (specify if UHF or VHF)  
DTV10000 / 10000 W (specify if UHF or VHF)  
DTV15000 / 15000 W (specify if UHF or VHF)

### I.O.T UHF Model Type / Power Level:

DVB-T-V/7.5 IOT / 7.5 kW UHF only  
I.O.T. type employed: TH 760

### Higher Power Levels and Custom Power Levels:

Available through modular construction. Pls. call Bext for details on power levels not listed