

# High Power TXN Series FM Transmitters



## Features

- Frequency: 87.5 - 108MHz
- AES, MPX, and Analog Audio Inputs. Stereo Encoder, RBDS/RDS Generator, and SCA
- Extensive Monitoring via Ethernet, SNMP, SMTP, and Remote Samples
- Air or Liquid Cooled Options

## Specifications:

<b>Model</b>	TXN-10K, TXN-15K, TXN-20K, TXN-25K, TXN-30K, TXN-40K, TXN-60K
<b>Output Impedance</b>	50 Ω
<b>Frequency Range</b>	87.5 – 108.0 MHz
<b>Nominal Output Power</b>	Model dependent   10 kW – 60 kW models
<b>Output Connector</b>	3-1/8", 4-1/16", 6-1/8" EIA (other sizes available)
<b>Spurious Emissions</b>	Compliant to Industry Canada BETS-6 and FCC 73.317
<b>Operating Modes</b>	FM, FM+HD, HD Only, DRM
<b>Synchronous AM SNR</b>	>50 dB
<b>Asynchronous AM SNR</b>	>60 dB

## Electrical:

<b>AC Input Voltage</b>	200 - 250 VAC 50/60 Hz Single or Three Phase
<b>Overall Efficiency</b>	>68% (analog)
<b>PA Efficiency</b>	>78% (analog)

## Interface:

<b>Remote Port</b>	<b>Control:</b>	RF carrier on/off, Reset
	<b>Monitor:</b>	Forward/reflected RF level, control PCB Vcc
	<b>Flags:</b>	VSWR, Current, Voltage, Forward Power
<b>Ethernet</b>	<b>Control:</b>	RF carrier on/off, Reset
	<b>Monitor:</b>	Forward/reflected RF level, DC pallet voltage, RF input level, temperature, VSWR trip point, model
	<b>Flags:</b>	Carrier on/off, amplifier overdrive, DC pallet voltage, VSWR, RF input level, AGC/manual status
<b>LCD Display</b>	<b>Monitor:</b>	Forward/reflected RF level, DC pallet voltage, RF input level, pallet current
	<b>Flags:</b>	VSWR, Current, Voltage, Forward Power

## Physical Features

<b>Dimensions</b>	22 " W x 38" D x 83" H(10K – 30K)	47 " W x 38" D x 83" H(40K – 60K)
<b>Lightweight Enclosures</b>	Aluminum	
<b>Operating Temperature</b>	0 to +59 °C	
<b>Humidity</b>	90%, non-condensing	

## Audio Characteristics:

<b>Left-Right Analog Operation</b>	<b>Input Impedance</b>	600Ω, 10 KΩ (selectable from front panel)
	<b>Input Connector</b>	XLR (balanced)
	<b>Input Level Max</b>	+10 dBm +/- 2dB (others available)
	<b>Harmonic Distortion</b>	<1% (50 Hz-15KHz)
	<b>S/N Ratio</b>	>-60dB FM noise, >-50dB AM noise
	<b>Pre-emphasis</b>	25, 50, 75 μS, or flat response (selectable)
<b>MPX Operation</b>	<b>Input Impedance</b>	10 KΩ Unbalanced
	<b>Input Connector</b>	BNC
	<b>Harmonic Distortion</b>	< 1% (50 Hz-15KHz)
	<b>S/N Ratio</b>	> 65 dB
<b>SCA Operation</b>	<b>Number of Inputs</b>	2
	<b>Input Connector</b>	BNC Female
	<b>Input Level</b>	+10 dBm Nominal
	<b>Frequency Range</b>	57 to 93 kHz
<b>Digital Audio</b>	<b>AES/EBU</b>	XLR, 3-position, Female