

FM Series Transmitters

50 W – 24 KW FM Transmitters



- Class Leading Features: Stereo Encoder, RBDS/RDS Generator, & SCA.
- Reliable Design and Manufacturer
- Frequency Agile 87.5 - 108MHz
- AES, S/PDIF, MPX, and Analog Audio Inputs
- Efficient State-of-the-Art Transistors and Power Supplies
- Extensive Monitoring via Ethernet, SNMP, and Remote Samples
- 2 Year Warranty

AUDIO CHARACTERISTICS

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

RF CHARACTERISTICS

<i>Output Impedance</i>	50 Ω
<i>Modulation</i>	FM, Deviation ± 75 KHz
<i>Frequency Range</i>	87.5 – 108.0 MHz (± 1 kHz stability)
<i>Nominal Output Power</i>	Model Dependent (50W, 150W, 300W, 500W, 750W, 1kW, 1.5kW, 2kW, 2.5kW, 3kW, 3.5kW, 5kW, 6kW, 7 kW, 10kW, 12kW, 14kW, 20kW, 24KW)
<i>Power Level</i>	Adjustable 1 – 105%
<i>Output Connector</i>	Type-N Female (50W to 500W); 7-16 DIN Female (750W, 1kW, 1.5kW, 2kW, 2.5kW, 3kW); 7/8 EIA (5kW, 6kW); 1-5/8" EIA (7kW, 10kW) 3-1/8" EIA (12kW, 14kW, 20kW, 24KW)
<i>Maximum VSWR</i>	1.5 : 1
<i>Overall Efficiency</i>	Typically 71% or Better
<i>PA Efficiency</i>	Typically 79% or Better
<i>Spurious Emissions</i>	Compliant to Industry Canada BETS-6 and FCC 73.317

ELECTRICAL

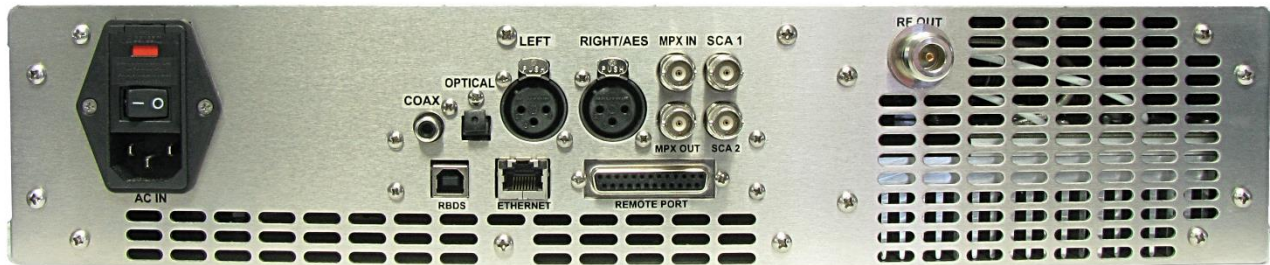
<i>Flexible AC Input</i>	<i>AC Power Single Phase</i>	200 - 250 VAC +/-10% 50/60Hz
	<i>AC Power Three Phase</i>	200 - 250 VAC +/-10% 50/60Hz

INTERFACE

<i>Remote Port</i>	<i>Control:</i>	RF Carrier on/off, RF Power up/down, Reset
	<i>Monitor:</i>	Forward, Reflected, Current, Voltage, Temperature
	<i>Flags:</i>	Amplifier Overdrive, VSWR (Adjustable Trip Point), High Temperature
<i>Ethernet</i>	<i>Control:</i>	RF Carrier on/off, RF Power up/down, AGC/manual, Change VSWR Trip Point, Reset
	<i>Monitor:</i>	Forward/Reflected RF Level, DC Pallet Voltage, RF Input Level, Temperature, VSWR Trip Point, Model, S/N
	<i>Flags:</i>	Carrier on/off, Amplifier Overdrive, DC Pallet Voltage, VSWR, RF Input Level, Temperature, AGC/Manual Status
<i>SNMP</i>	<i>Control:</i>	RF Carrier on/off, RF Power up/down, AGC/Manual, Change VSWR Trip Point, Reset
	<i>Monitor:</i>	Forward/Reflected RF Level, DC Pallet Voltage, RF Input Level, Temperature, Pallet current, Attenuation, Run Time, RF Fault, Model/Serial Number
	<i>Flags:</i>	Amplifier Overdrive, VSWR, Temperature, SNMP Error
<i>RBDS/RDS</i>	<i>Input Connector</i>	USB
	<i>Features</i>	Scrolling, Parsing, Advanced Weekly Scheduling, UECP, ASCII Terminal Control
	<i>Supported Commands</i>	PI, PS, PTY, TP, AF, TA, PTYN, DI, EON, RT+, M/S, PIN, ECC, RT, TDC, IH, ODA, CT, LIC, TMC



OLED Display



Exciter Rear Panel Connections

PHYSICAL FEATURES

<i>Minimal Rack Space</i>	2U – 50W/150W/300W/500W; 3U – 750W/1kW/1.5kW; 4U – 2kW/2.5kW/3kW; 6U – 3.5kW/5kW/6kW; 42U – 7kW/10kW; 48U – 12kW/14kW/20kW/24kW	U (H) x 25" - 36" (D) x 19" (W) U (H) x 40" - 43" (D) x 24" (W)
<i>Weight</i>	50W - 30 lbs; 150W - 35 lbs; 300W - 40 lbs; 500 W - 45 lbs; 750W - 65 lbs; 1kW - 70 lbs; 1.5kW - 75 lbs; 2kW - 80 lbs; 2.5kW - 90 lbs 3kW - 100 lbs 3.5kW - 130 lbs; 5kW - 160 lbs; 6kW - 170 lbs; 7kW - 450 lbs; 10kW - 800 lbs; 12kW - 900 lbs; 14kW - 950 lbs; 20kW - 1000 lbs; 24kW – 1150 lbs.	

ENVIRONMENTAL

<i>Maximum Elevation</i>	10,000 ft.
<i>Operating Temperature</i>	0 to +59° C
<i>Air Flow Max CFM</i>	2,000 ft ³ /min
<i>Humidity</i>	90%, non-condensing

Disclaimer: Prices and Specifications are subject to change without notice. Information may be changed or updated without notice. American Amplifier Technologies may also make improvements and/or changes in the products and/or pricing described in this information at any time without notice.