

## AAT-FM-20KW-Transmitter



### FM Transmitter Features

- 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

Output Impedance	50 Ω
Modulation	FM, Deviation ± 75 KHz
Frequency Range	87.5 – 108.0 MHz (± 1 kHz stability)
Nominal Output Power	20KW
Power Level	Adjustable 1 – 105%
Output Connector	3-1/8" EIA Female
Maximum VSWR	1.5 : 1
Overall Efficiency	Typically 71% or Better
PA Efficiency	Typically 79% or Better
Spurious Emissions	Compliant to Industry Canada BETS-6 and FCC 73.317

## ELECTRICAL

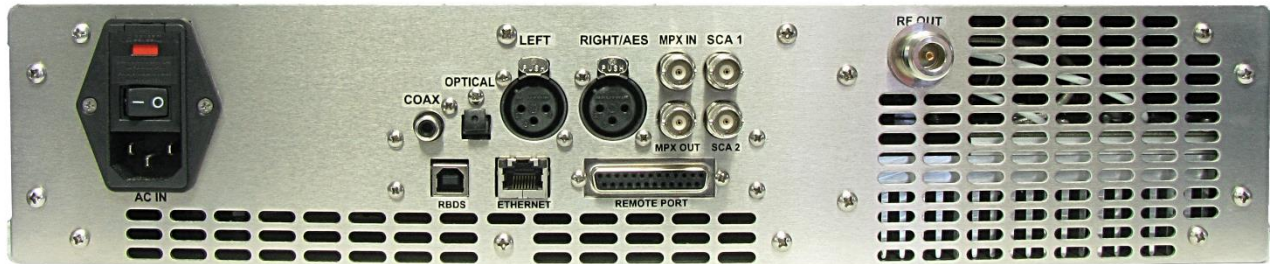
Flexible AC Input	AC Power Single Phase	200 - 250 VAC +/-10% 50/60Hz
	AC Power Three Phase	200 - 250 VAC +/-10% 50/60Hz

## INTERFACE

Remote Port	Control:	RF Carrier on/off, RF Power up/down, Reset
	Monitor:	Forward, Reflected, Current, Voltage, Temperature
	Flags:	Amplifier Overdrive, VSWR (Adjustable Trip Point), High Temperature
Ethernet	Control:	RF Carrier on/off, RF Power up/down, AGC/manual, Change VSWR Trip Point, Reset
	Monitor:	Forward/Reflected RF Level, DC Pallet Voltage, RF Input Level, Temperature, VSWR Trip Point, Model, S/N
	Flags:	Carrier on/off, Amplifier Overdrive, DC Pallet Voltage, VSWR, RF Input Level, Temperature, AGC/Manual Status
SNMP	Control:	RF Carrier on/off, RF Power up/down, AGC/Manual, Change VSWR Trip Point, Reset
	Monitor:	Forward/Reflected RF Level, DC Pallet Voltage, RF Input Level, Temperature, Pallet current, Attenuation, Run Time, RF Fault, Model/Serial Number
	Flags:	Amplifier Overdrive, VSWR, Temperature, SNMP Error
RBDS/RDS	Input Connector	USB
	Features	Scrolling, Parsing, Advanced Weekly Scheduling, UECP, ASCII Terminal Control
	Supported Commands	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

Minimal Rack Space	48RU	84" x 42" x 24"
Weight	1,000 lbs.	

## ENVIRONMENTAL

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

**Disclaimer:** 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 described in this information at any time.