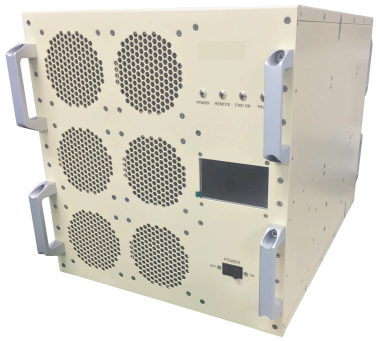
HD Communications Corp.

HD32110
SOLID STATE HIGH POWER AMPLIFIER



FEATURES

Rack mounted system
Class AB linear LDMOS design
Instantaneous wide bandwidth
Suitable for high power VHF pulse applications
Built-in control, monitoring and protection circuits
Versatile interface options
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	120 - 200 MHz			
Peak Output Power	4000 Watt Min			Into 50 Ω
Power Gain	66 dB Min			Pin=0dBm for full rated Pout
Power Gain Flatness	+1.5 / -0 dB Max			Constant input power
Pulse Characteristics	Width	Duty Cycle	Rise/Fall	
	0.1-125 µS	3.0 %	50 nS	
Input Return Loss	12 dB Min			Relative to 50 Ohm
3rd Order Intercept Point	+76 dBm Min			
Harmonics	-20 dBc Max			At rated output
Spurious	-60 dBc Max			Non-harmonics
Noise Quieting	-80 dBm/MHz Max			
Operating Voltage	208 VAC, ±10 %, 60 Hz ±10 %			3-Phase
Efficiency	>10 %			At rated Pout
Max Input Power	+8 dBm			Without damage
Load VSWR Protection	∞ : 1 @ rated Pout			Power limiting circuits

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation
Altitude Operating / Storage	8,000 / 4,000 ft. Min	
Shock / Vibration	12G MIL-STD-810F	

MECHANICAL SPECIFICATIONS

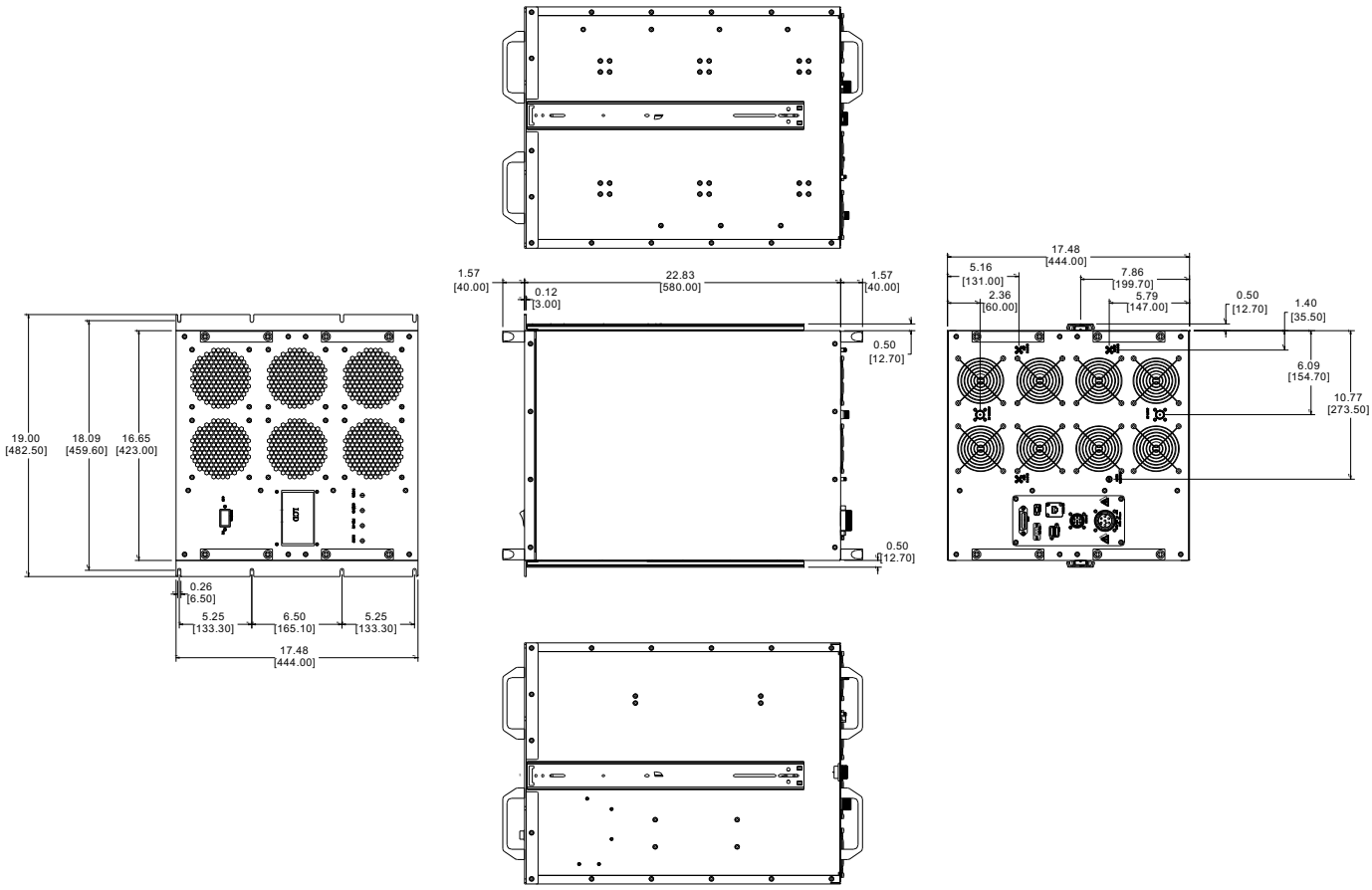
Parameter	Specification	Notes
Dimensions W x H x D	<19 x 17.5 x 26.25 inch	10U
Weight	<190 lb.	
RF Connectors In / Out Connectors	Type-N Female	Rear Panel
AC Power Connector	MS3102A24-10P	Rear panel, or equivalent
GPIB / Remote Connectors	3549-1002 / MS3102A16S-1S	Rear panel, or equivalent
Noise Quieting connector	TNC female	
Cooling	Built in Fan Cooling	Variable speed
Interface	IEEE-488	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485	Rear panel

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OUTLINE DRAWING

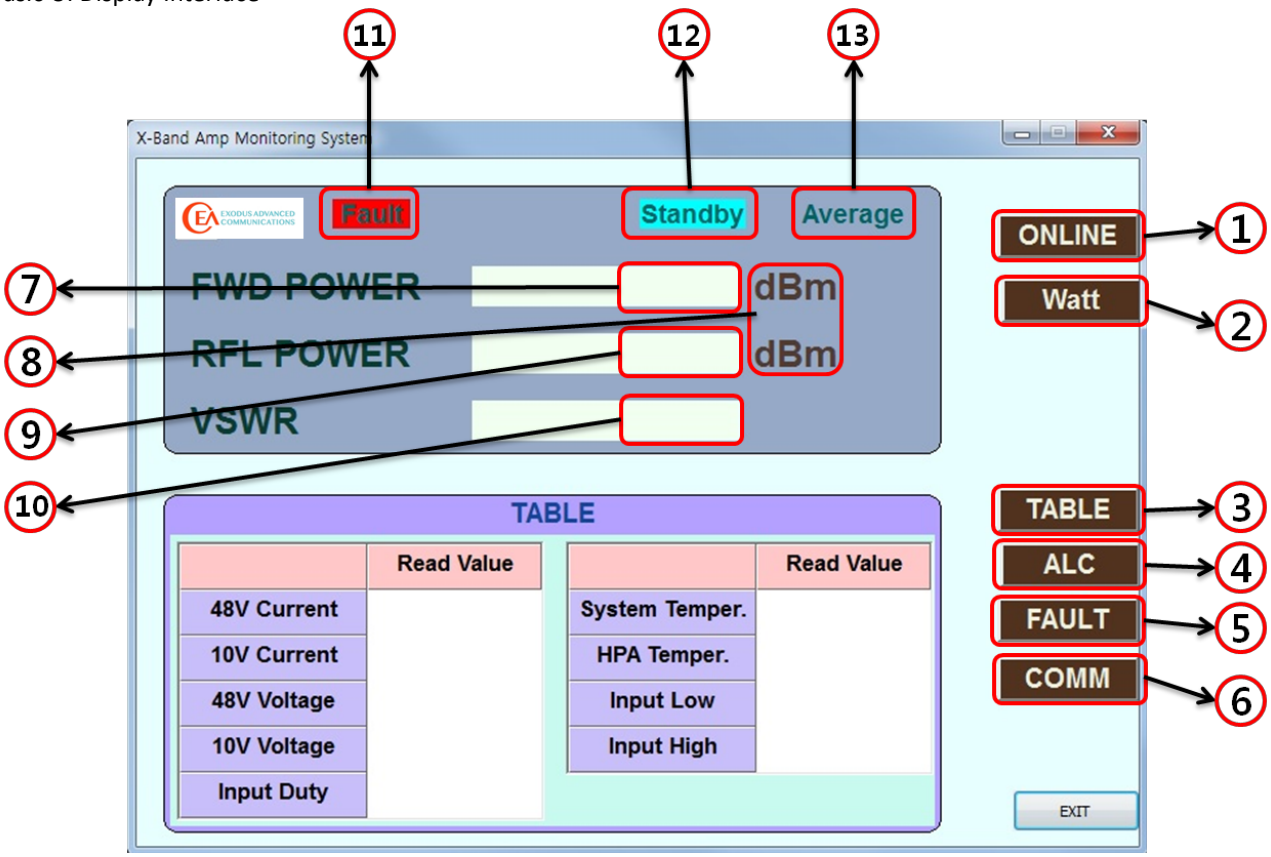


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Basic UI Display Interface



1) ONLINE/STANDYBY: HPA ON/OFF.
2) Watt/dBm: OUTPUT POWER UNIT.
3) TABLE: HPA State Table.
4) ALC: Auto Level Control.
5) FAULT: Display alarm messages.
6) COMM: Set the communication method.
7) Display Forward Output Power dBm or W.
8) Output Power Unit dBm or W.
9) Display Reflected Output Power dBm or W.
10) Display VSWR Value.
11) Display Fault or Clear State.
12) Display Standby or Online State.
13) Display Output Power Average or Peak.

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