HD Communications Corp.

HD32014
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear LDMOS design
Instantaneous wide bandwidth
Suitable for CW, pulse and all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	20 - 520 MHz	
Power Output @ Psat	800 Watt Min / 900W Typ	CW
Power Gain	59 dB Min	
Power Gain Flatness	3 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	48dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	60 dBc Min	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	2000 Watt Max	At rated output
Max Input Power Protection	+8 dBm	<10Sec without damage
Load VSWR Protection	5 : 1	<1 minute at rated output

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

MECHANICAL SPECIFICATIONS

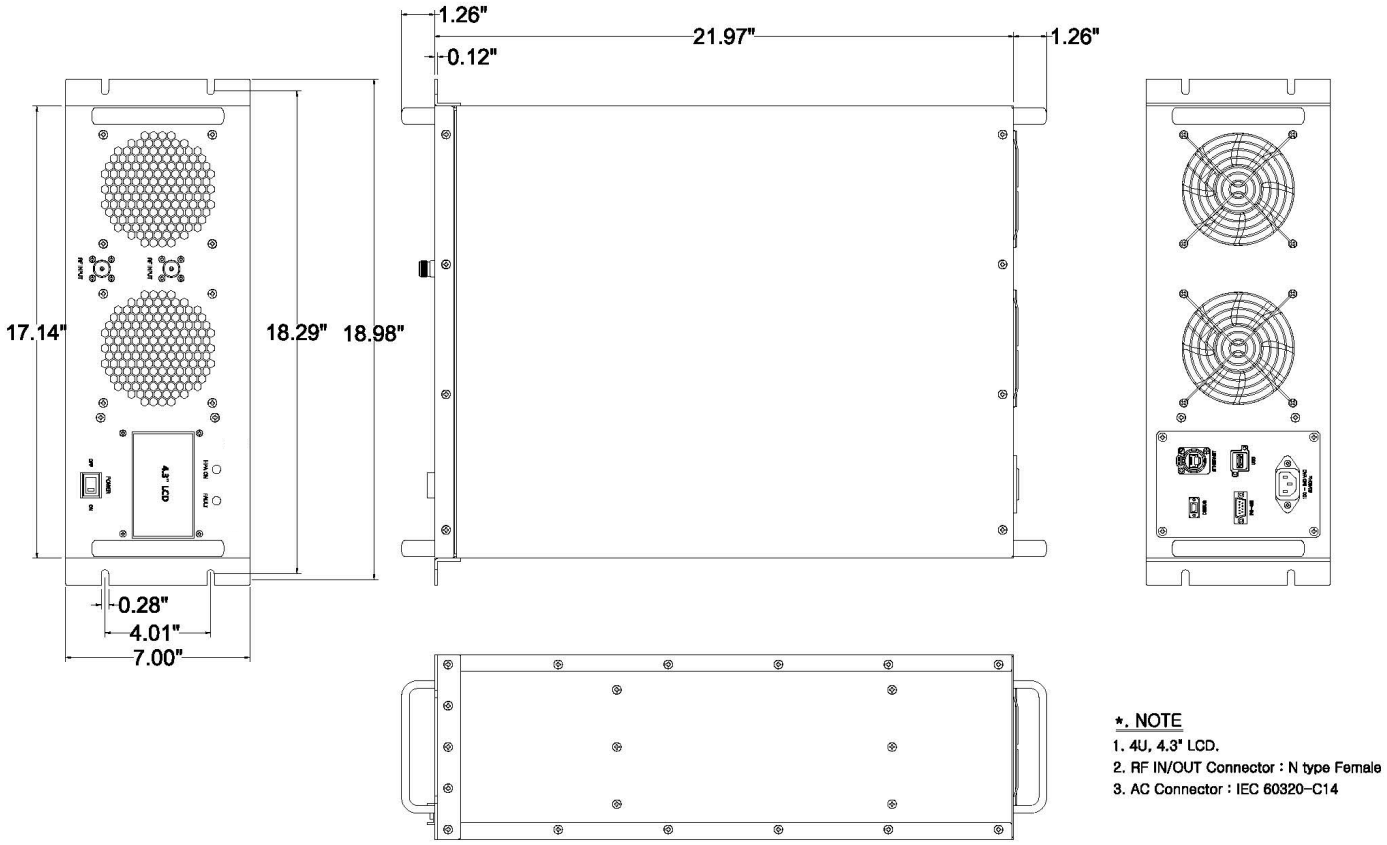
Parameter	Specification	Notes
Dimensions W x H x D		
Weight		
RF Connectors In/Out	Type-N Female	Front Panel Standard
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Remote Bluetooth application

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

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OUTLINE DRAWING



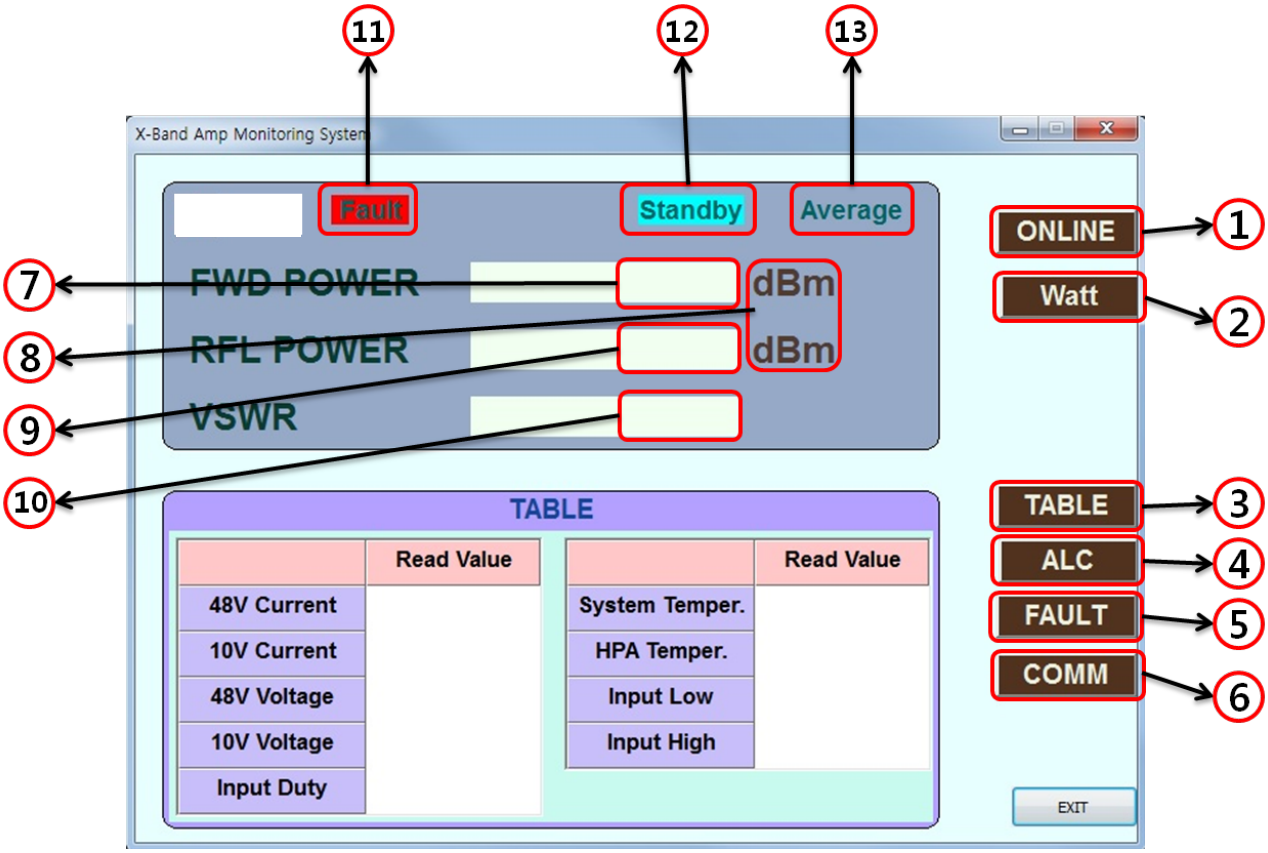
*. NOTE
1. 4U, 4.3" LCD.
2. RF IN/OUT Connector : N type Female
3. AC Connector : IEC 60320-C14

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Basic Optional 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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