HD Communications Corp.

HD32023
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	0.7 - 6.0 GHz	
Power Output @ Psat	200 Watt Typ	
Power Gain	53 dB Min	
Power Gain Flatness	4 dB p-p Max	Constant input power
Gain Variation Over Temperature	±2.0 dB Max	
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	43dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output
Non Harmonic Spurious	-60 dBc Max	
Operating Voltage	180 - 240 VAC	
Power Consumption	2000 Watt Max	At rated output
Max Input Power Protection	+5 dBm	Without damage
Load VSWR Protection	∞ : 1	< 10 Sec

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

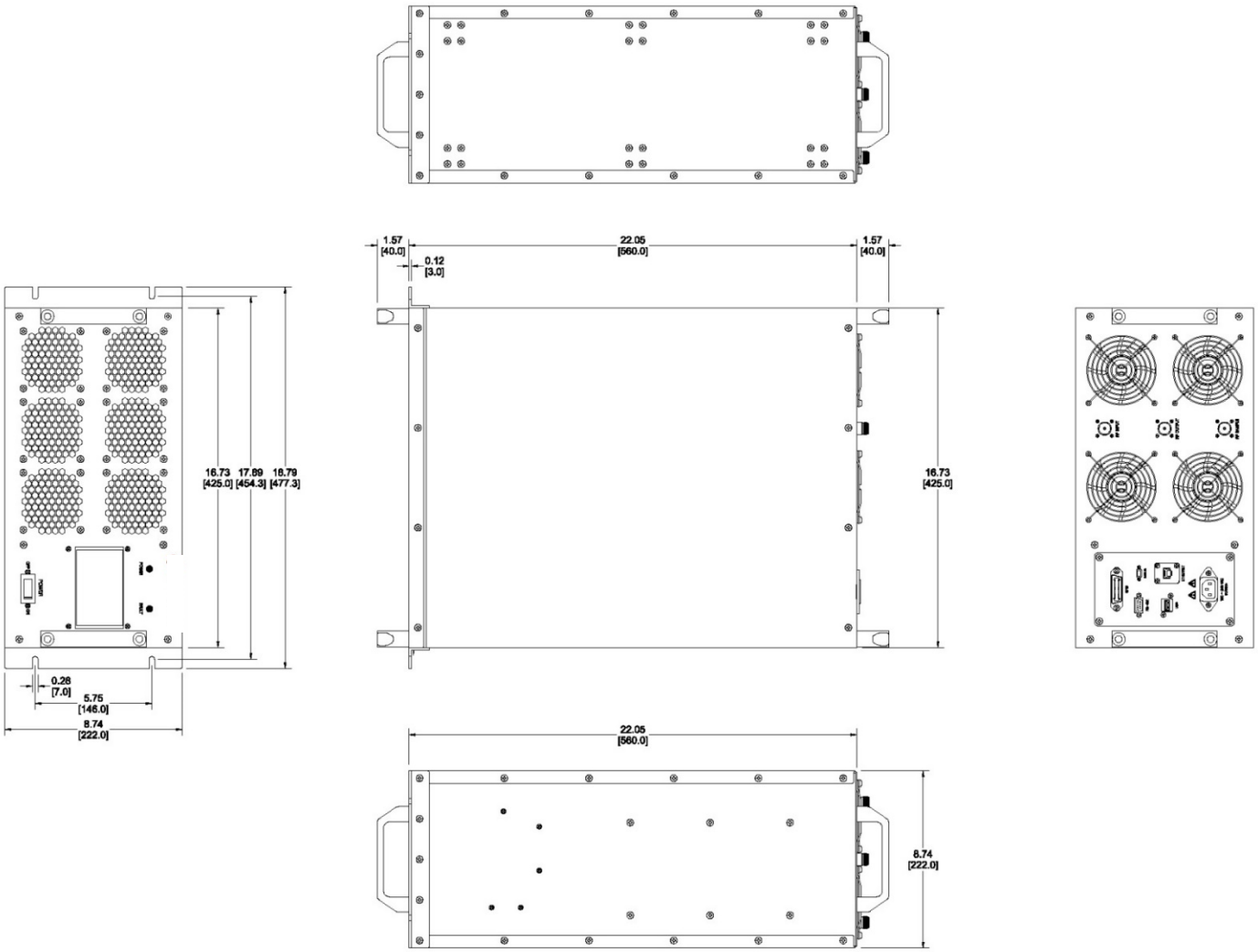
Parameter	Specification	Notes
Dimensions W x H x D	R5U Rack Mount Chassis	See outline drawing
Weight	35 Kg. Max	
RF Connectors In/Out	Type-N Female	Front Panel Standard
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING

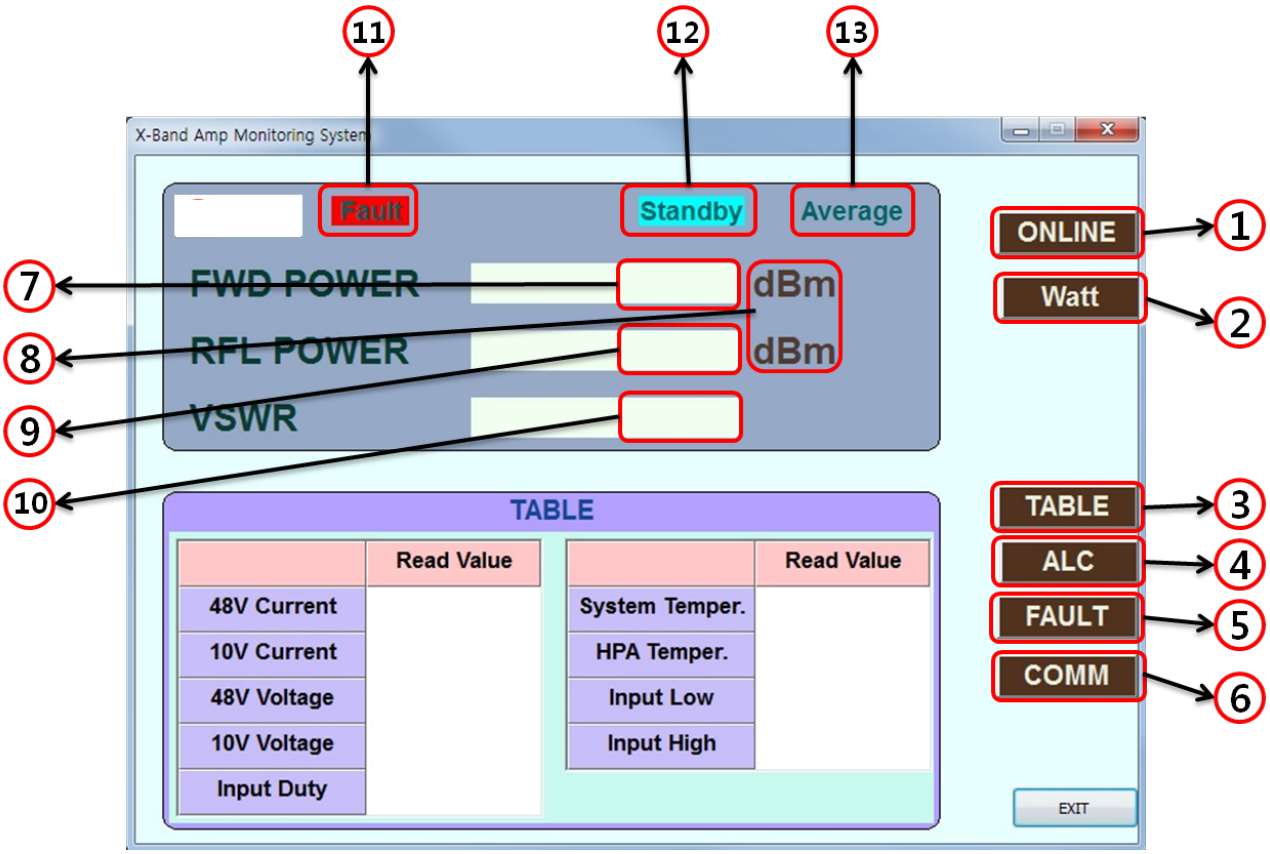


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Basic Optional UI Display Interface



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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