HD30206
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 - 500 MHz	
Power Output @ P1dB GCP	600 Watt Min / 700W Typ	CW
Power Gain	57 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	1800 Watt Max	At rated output
Max Input Power Protection	+8 dBm	<10Sec without damage
Load VSWR Protection	5 : 1	<1 minute at rated Pout

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

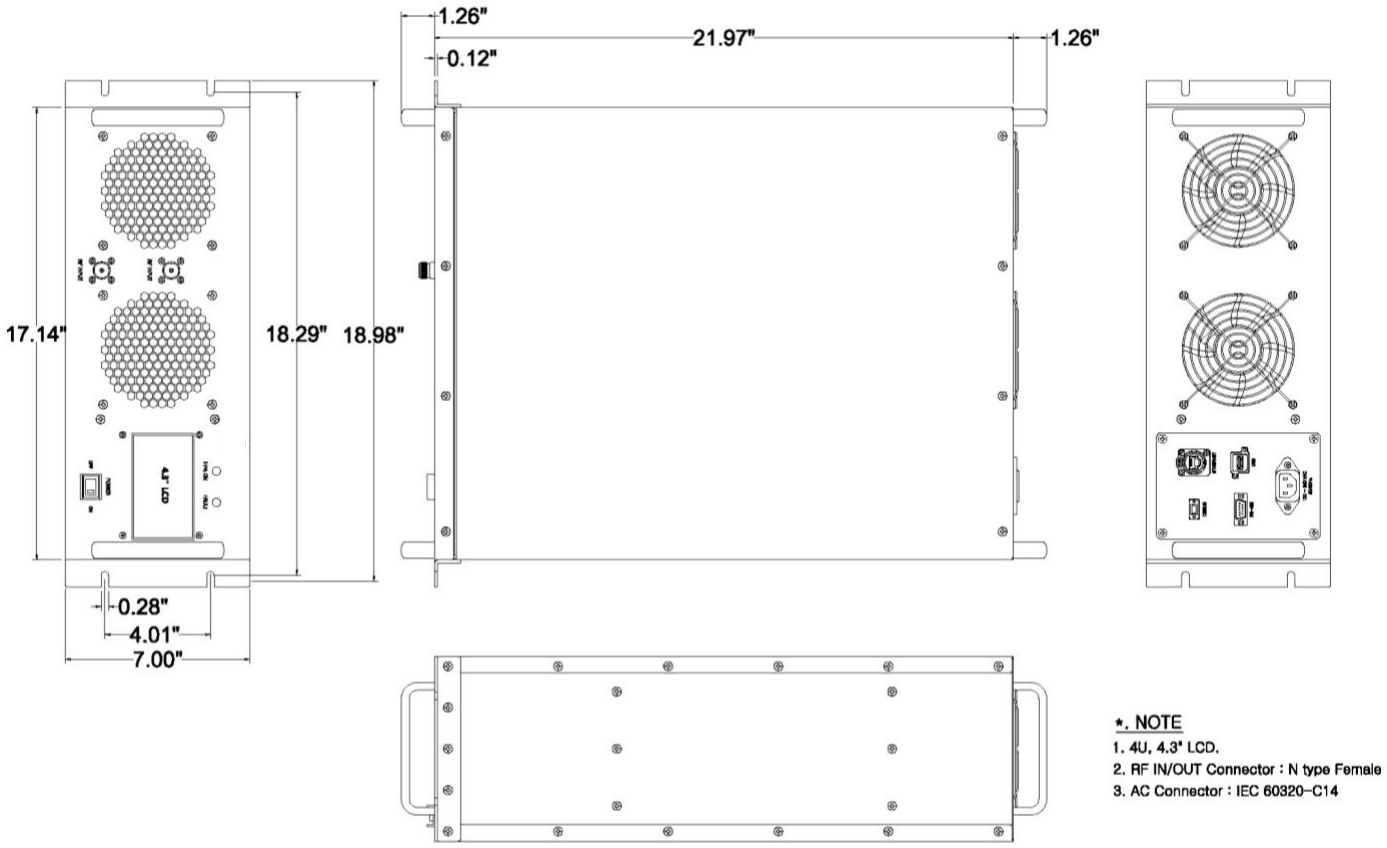
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	19” x 7” x 22” (483 x 178 x 580 mm)	4U - without connectors
Weight	30 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

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
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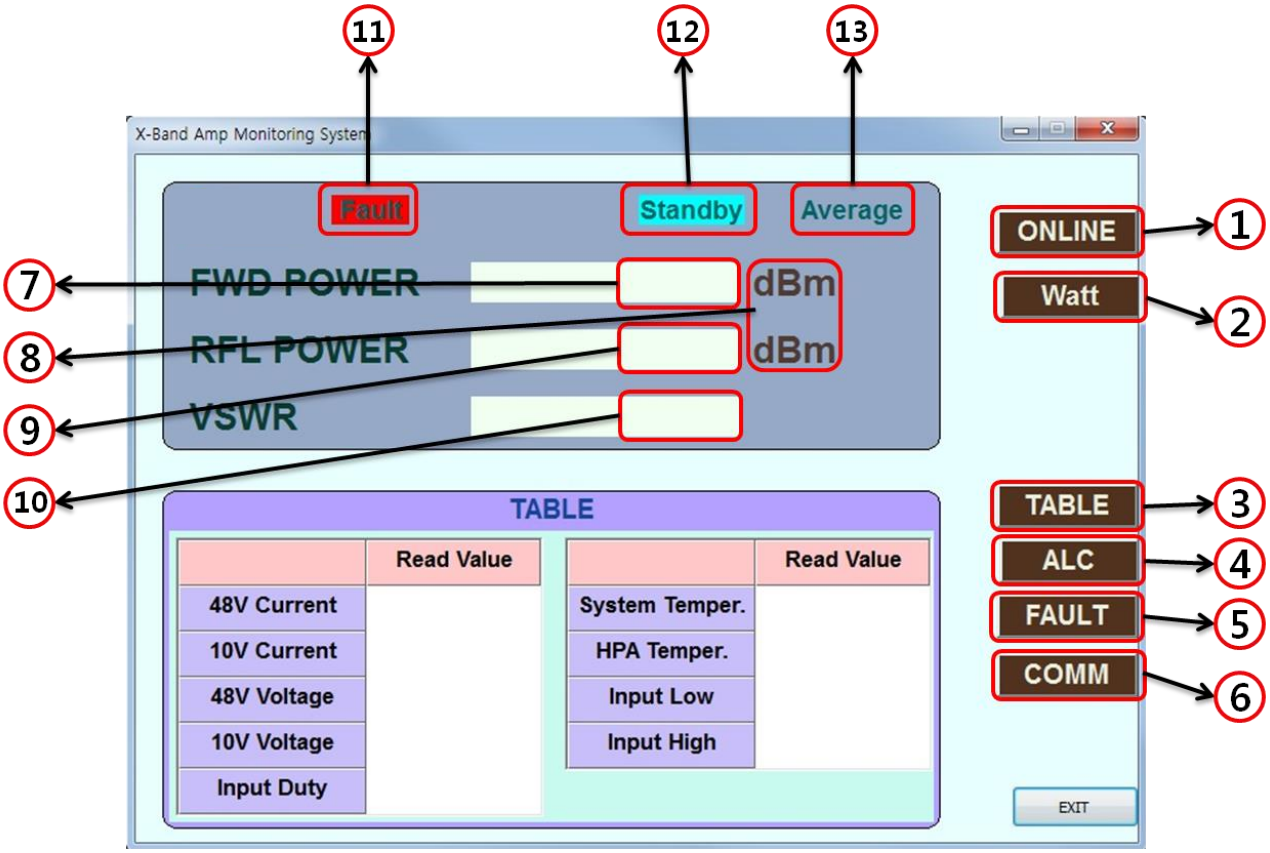
OUTLINE DRAWING



*. 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.