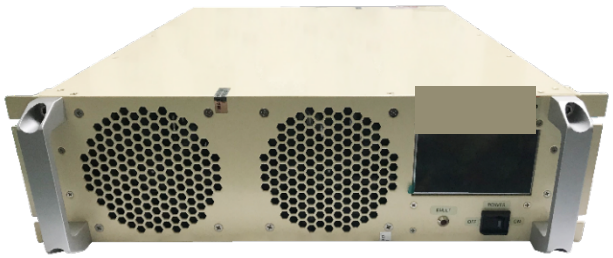
HD Communications Corp.

HD32038
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 3.0 GHz	
Power Output	250 Watt Min	CW
Power Output @ P1dB	200 Watt Min	Note 1
Power Gain	54 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input 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 Pout=200Watt
Spurious	-60 dBc Max	Non-harmonics
Noise Figure	15 dB Max	At max gain
Operating Voltage	100 - 240 VAC	
Power Consumption	1500 Watt Max	At rated Pout
Max Input Power Protection	+10 dBm	<10 Sec without damage
Load VSWR Protection	Graceful degradation @ 3 : 1 load VSWR	

Notes:

1. Measured with 1KHz AM, 80% modulation index

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non -condensing
Shock & Vibrations	MIL-STD-810F - Shock Method 516.5, Vibration Method 514.5	

MECHANICAL SPECIFICATIONS

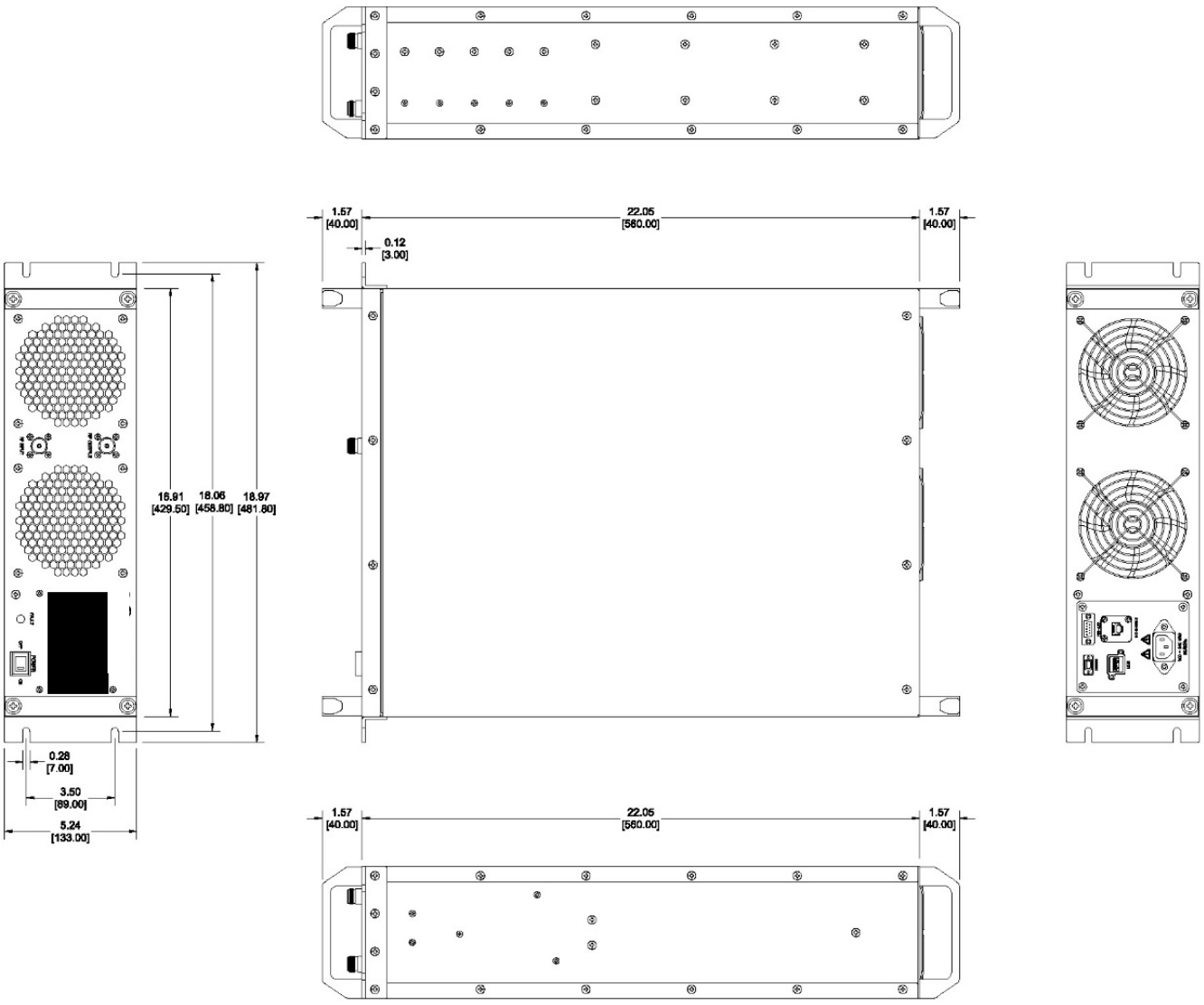
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm (17 x 5.25 x 22 inches)	3U
Weight	65 lbs.	
RF Connectors In / Out	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, USB, RS422/485 Optional GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING



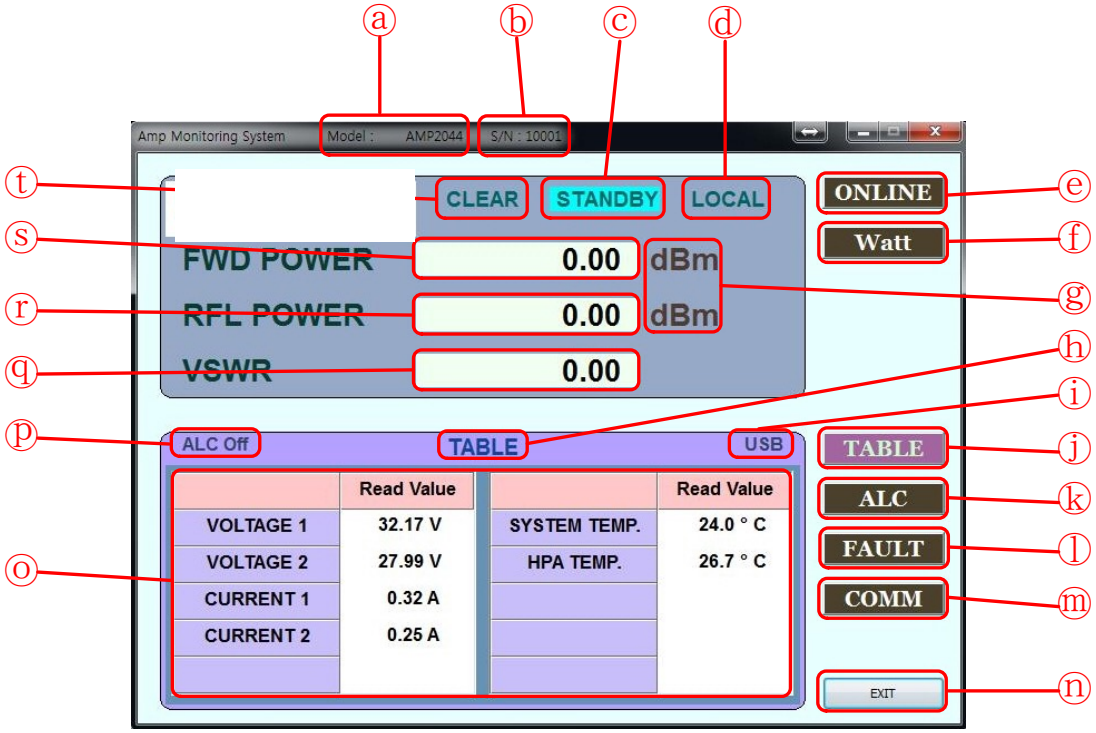
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REMOTE CONTROLLER INTERFACE SOFTWARE

PRIMARY (MAIN) WINDOW



a Model: Connected model number.
b S/N: Serial number of the connected model.
c STANDY/ONLINE: Display system STANDY/ONLINE status.
d LOCAL/REMOTE: Display system LOCAL/REMOTE status, REMOTE mode is optional.
e ONLINE/STANDY: System ONLINE/STANDY button.
f Watt/dBm: Watt/dBm conversion button.
g dBm/Watt: Display dBm/Watt status.
h TABLE/ALE/FAULT/COMM: Display menu status.
i RS232 (RS422)/USB/BLUETOOTH/ETHERNET: Display the communication mode.
j TABLE: TABLE menu button.
k ALC: ALC menu button.
l FAULT: FAULT menu button.
m COMM: COMM menu button.
n EXIT: Button to exit the program.
o Display status of the TABLE menu window.
p ALC On/ALC Off: Display ALC operating status.
q VSWR: Display VSWR value.
r RFL POWER: Display RFL POWER value.
s FWD POWER: Display FWD POWER value.
t CLEAR/FALUT: Display CLEAR/FAULT status.

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