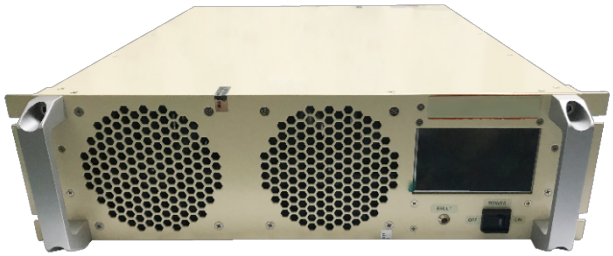
HD Communications Corp.

HD32161
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear LDMOS design
Instantaneous 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	2.025 - 2.120 GHz	
Power Output @ P1dB GCP	100 Watt Min	CW
Power Gain	55 dB Min	
Gain Adjustments Range	20 dB Min in 0.25 dB steps	
Power Gain Flatness	2.0 dB p-p Max	Constant input power
Gain Variation Over Temperature	3 dB p-p Max / 1.0 dB P-P over any 10 MHz	
Input / Output Return Loss	-12 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	41dBm/Tone, Δ = 1MHz
Harmonics	-55 dBc Typ	At rated output power
Spurious	-60dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	400 Watt	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	∞ : 1	

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

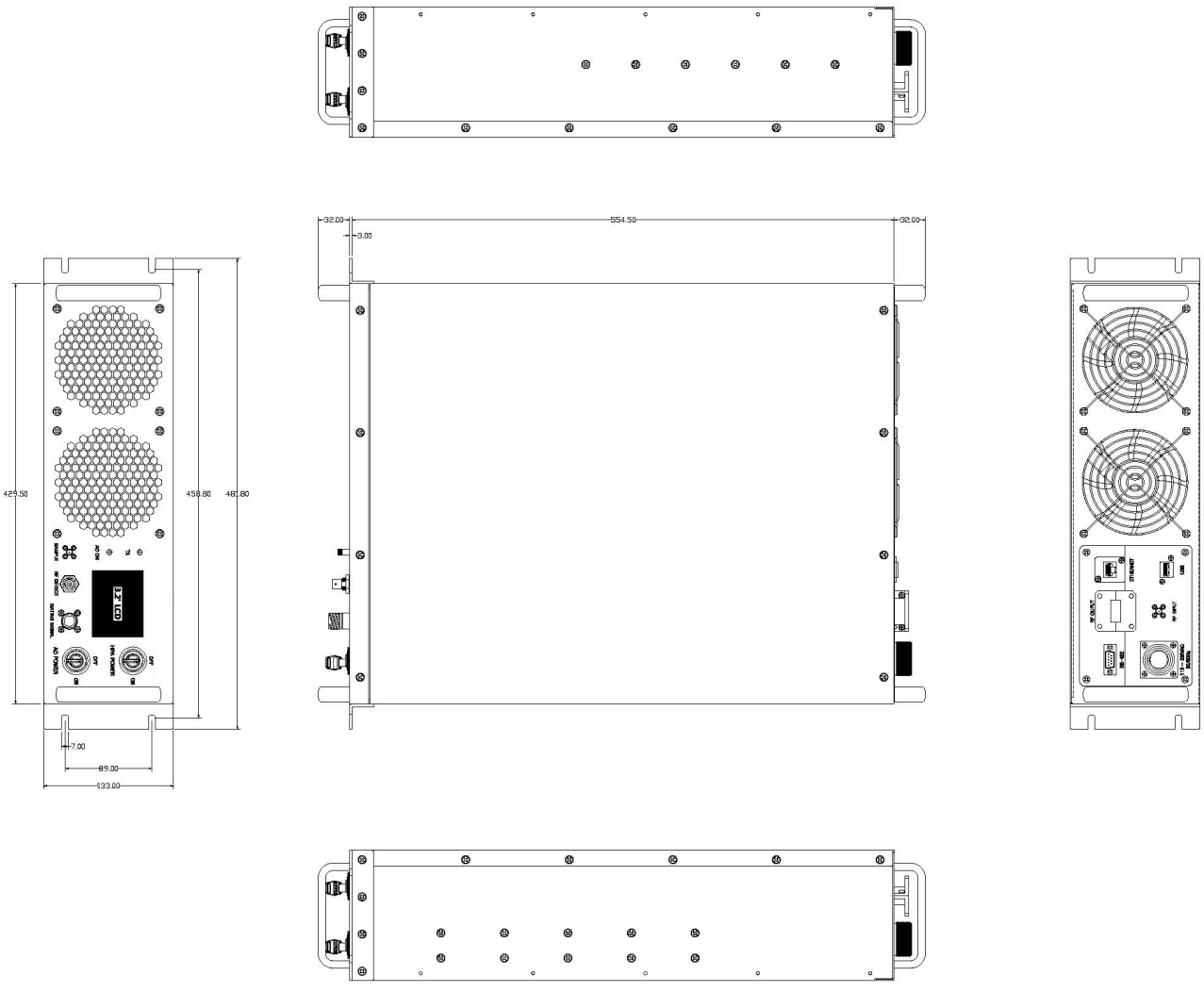
Parameter	Specification	Notes
Dimensions W x H x D	430 x x 133 x 562 mm	3U - Excluding handles
Weight	20 kg.	
RF Connectors In / Out / Sample Port	Type-N Female / SMA-F	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Monitor & Control (Digital Control Option): FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, USB, RS422/485 Optional GPIB Interface	See remote controller software interface on page 3
Cooling	Built in Fan Cooling	Variable speed

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



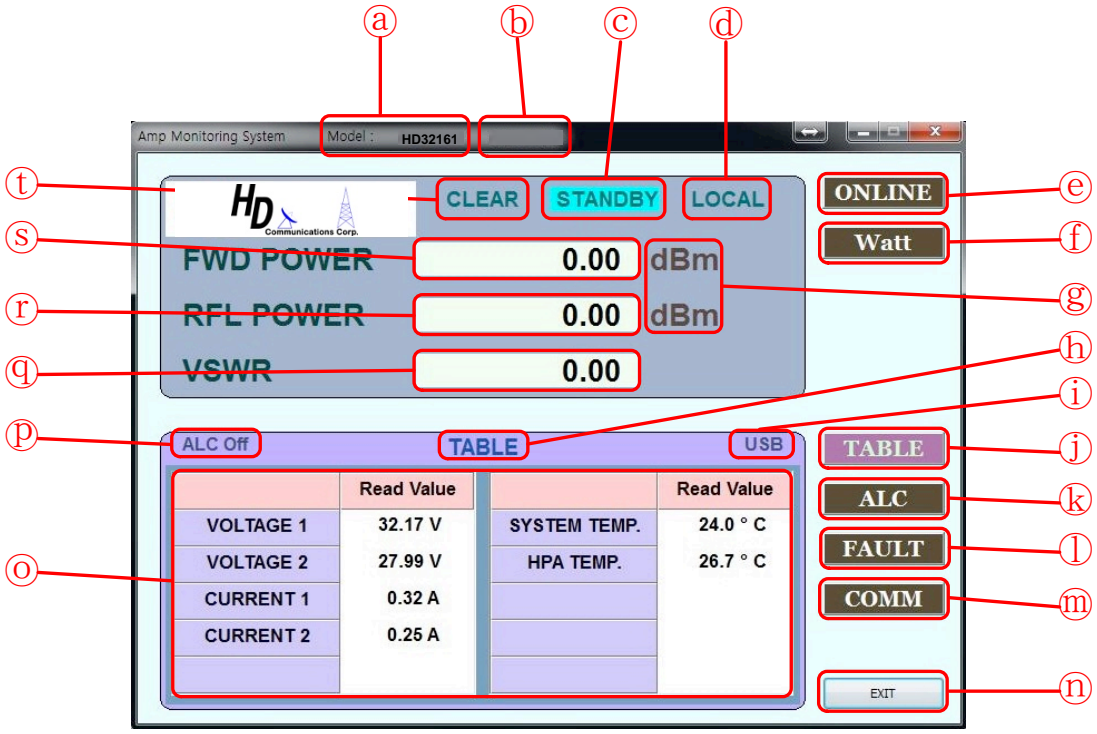
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REMOTE CONTROLLER INTERFACE SOFTWARE

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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