HD Communications Corp.

HD31197
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	0.8 - 3.1 GHz	
Power Output @ Psat	420 Watt Min	CW
Power Output @ P1dB	400 Watt Min	
Input Power for rated Output	-3.4 dBm Nom	
Power Gain	59 dB Nom	
Gain Adjustment Range	15 dB Min	
Power Gain Flatness	5.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	2^{nd}: -15 dBc Typ 3^{rd}: -20 dBc Typ	At rated output power
Spurious	-80 dBc Max @ Δ = 100 KHz	Non-harmonics
Operating Voltage	100 - 240 VAC ±10%	50/60 Hz ±6%
Power Consumption	2800 Watt Max	At rated Pout
Input Power Protection	+15 dBm Max	
Load VSWR Protection	∞ : 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-condensing

MECHANICAL SPECIFICATIONS

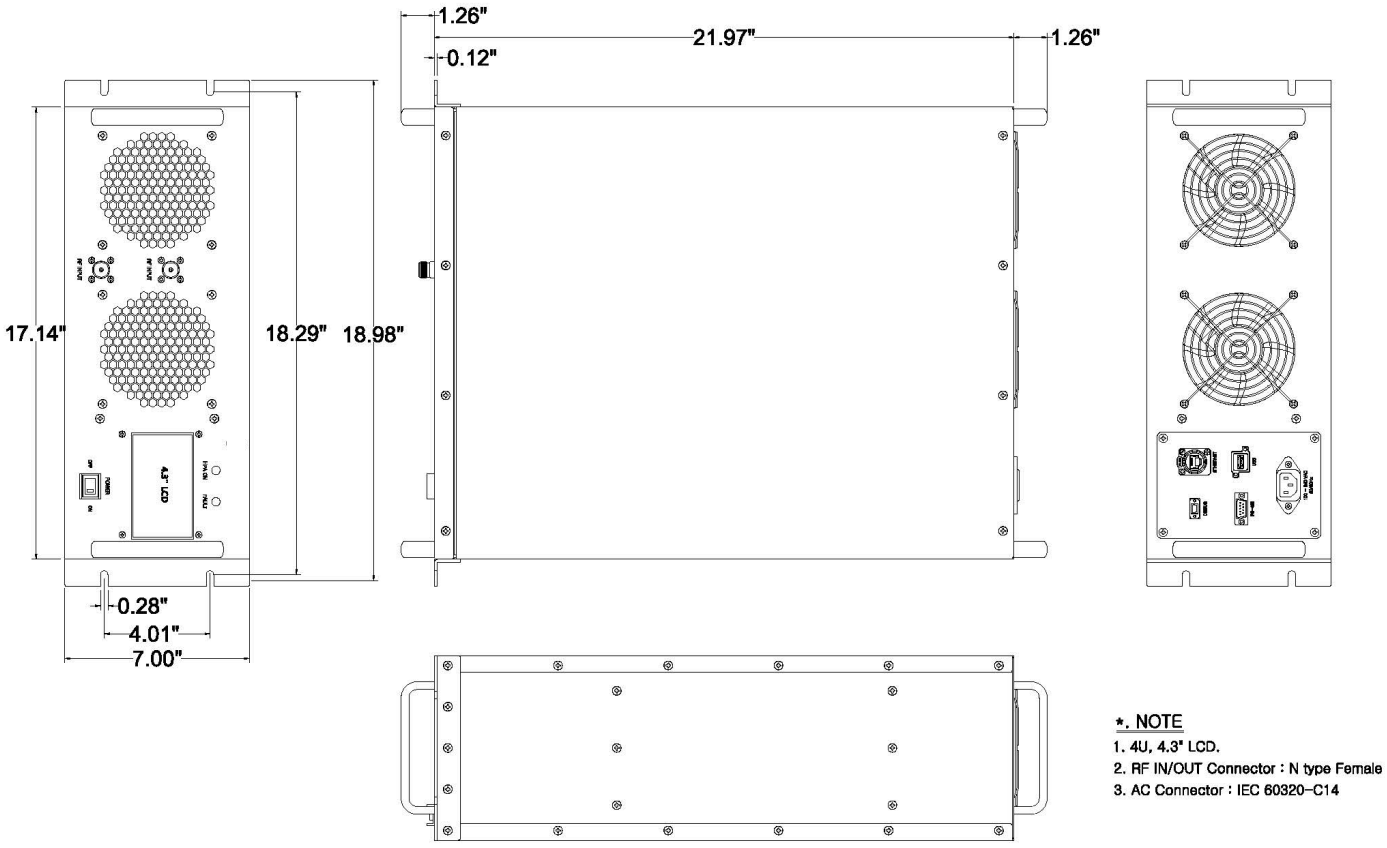
Parameter	Specification	Notes
Dimensions W x H x D	19” x 7” x 22” (483 x 178 x 560 mm)	R4U
Weight	65 lb. Max	
RF Connectors In / Out	Type-N Female	Front Panel Standard
Forward and Reflected Sample Ports	Typ-N Female	Front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
Dual Interlock		
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



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

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