HD31123
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Small and light weight rack mounted chassis
Class AB linear GaN Hybrid design
Instantaneous Ultra-broadband
Suitable for all single channel modulation standards
Built-in protection circuits
Universal voltage AC power supply
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 18.0 GHz	
Power Output	10 Watt Min	CW
Power Gain	40 dB Min	
Power Gain Flatness	6.0 dB p-p Max	At rated Pout
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	30dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Noise Figure	10 dB Max	
Operating Voltage	100 - 240 VAC	50/60Hz
Power Consumption	200 Watt Max	At rated Pout
Max Input Power Protection	+3 dBm	<10 Sec 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

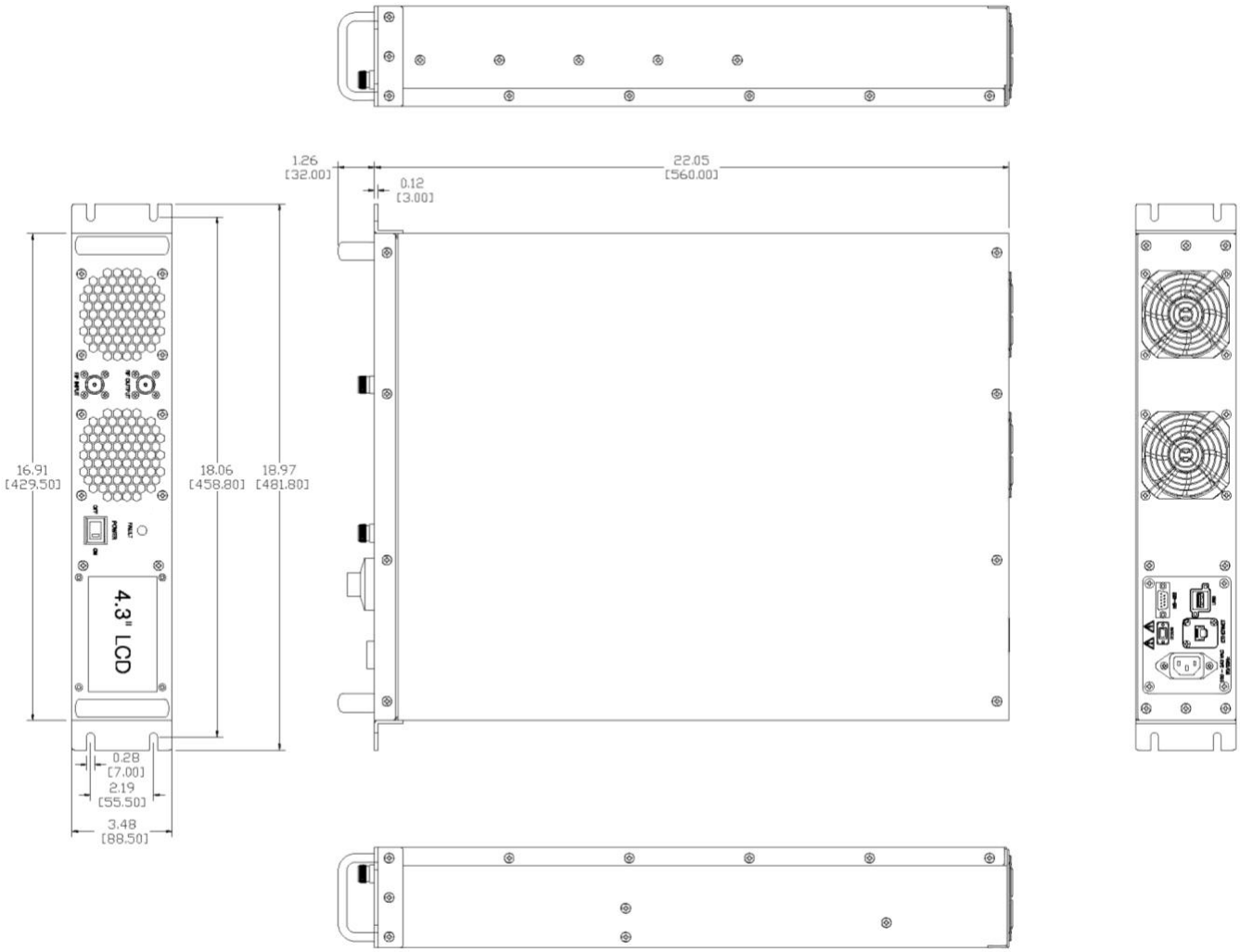
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 89 x 560 mm (17 x 3.5 x 22 inch)	2U, excluding handles
Weight	9 kg.	
RF Connectors In/Out	SMA Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
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 WITH DIGITAL CONTROL (LCD)

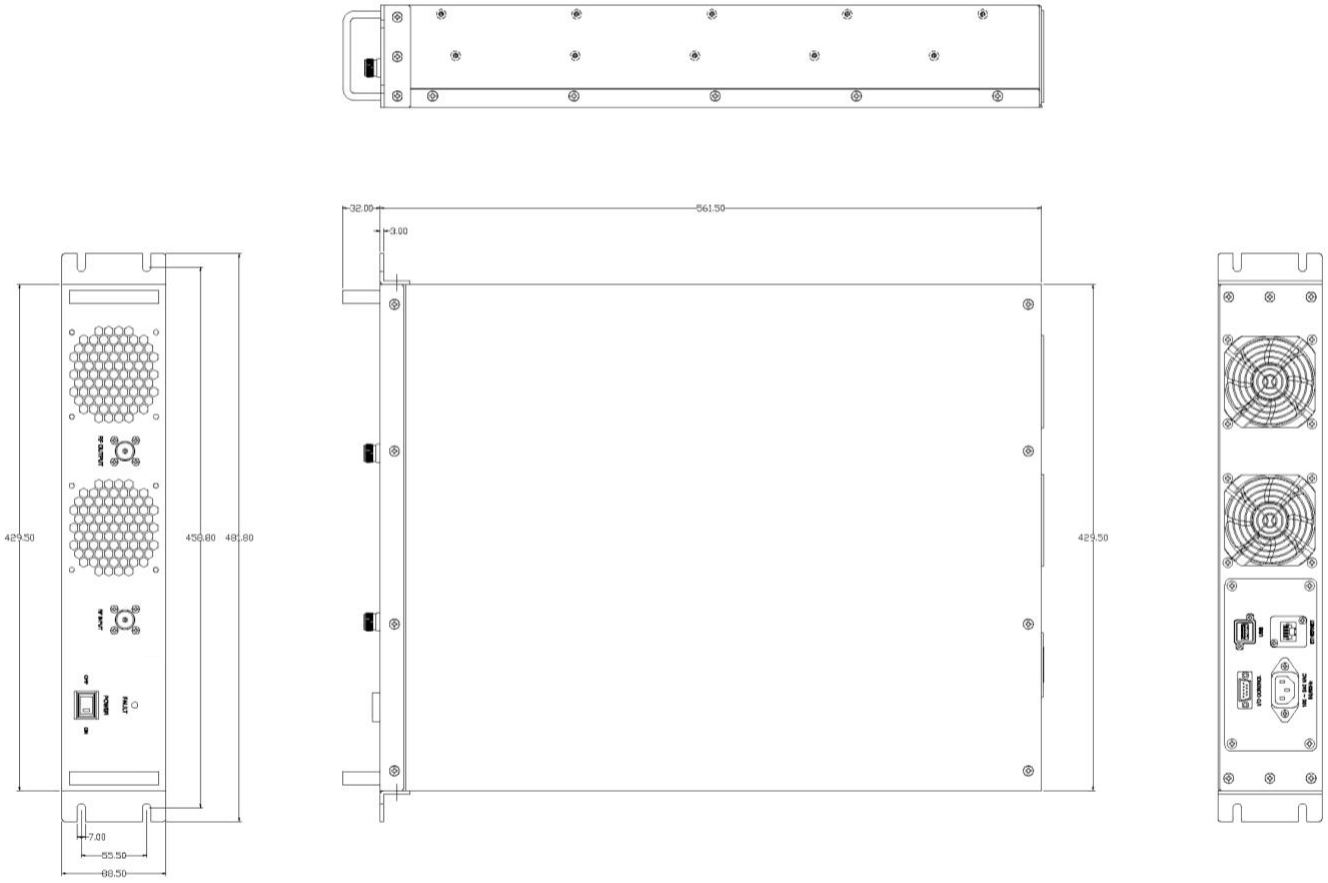


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Communications Corp.

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OUTLINE DRAWING WITH MANUAL GAIN ADJUSTMENT



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