HD32081
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Ultra-broadband, class AB linear LDMOS and GaN design
Dual Band, One input - Two Outputs
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification		Notes
Band	A	B	
Operating Frequency Band	20 - 1000 MHz	1000 - 3000 MHz	
Band Switching Speed	15 mS Nom		Coaxial relay - Local or Remote
Power Output @ Psat	100 Watt Min		
Power Gain	50 dB Min		0dBm or less for rated Pout
Power Gain Flatness	4.0 dB p-p Max		Constant input power
Input Return Loss	-10 dB Max		
2-Tone Intermodulation (IMD)	-30 dBc Typ		40dBm/Tone, Δ = 1MHz
Harmonics	-15 dB Typ		At rated Pout
Non-Harmonics Spurious	-60 dBc Max		
Operating Voltage	100 - 240 VAC		
Power Consumption	800 Watt Max		At rated Pout
Input Power Protection	+8 dBm Max[1]		<10 Sec without damage
Load VSWR Protection	10 : 1 Max[2]		<1 minute at rated Pout

1 Units with optional digital monitor and control, for basic units <10 Sec without damage
2 Units with optional digital monitor and control, for basic units <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	up to 95 %	Non Condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[3]	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U - Excluding handles
Weight	20 Kg.	
RF Connectors In/Out A / Out B	Type-N Female	Front or rear panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	IEC 60320-C14	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, **OPTIONAL**: Safety Interlock	Ethernet RJ-45 TCP/IP, RS422/485, USB Open=STBY/Short=RFON	 BNC Female on rear panel

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Specifications subject to change without notice. Specifications and drawings may vary with selected options.

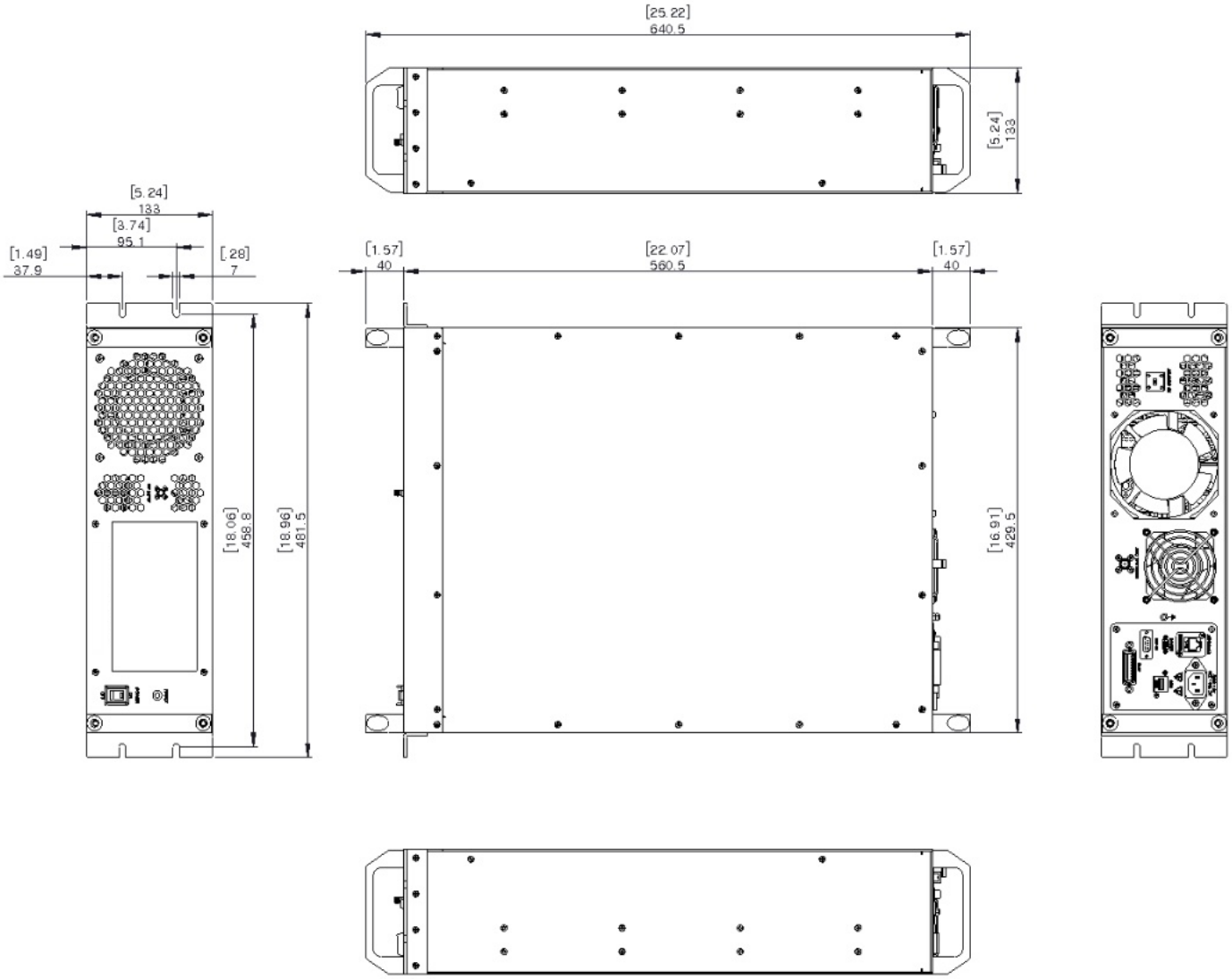
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-40dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-40dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring (With Option DMC Purchase)	Offset correction entry for +/- 0.2dB accuracy	11-points standard[4]

4 Consult with factory if additional points would be required.

OUTLINE DRAWING
SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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