



# AMP6040 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Class AB linear GaN hybrid design
- Rack mount chassis
- Designed for X-Band medium power general comm applications
- Suitable for all single channel modulation standards
- Universal voltage AC power supply
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	16.6 - 16.8 GHz	Effective BW 16.3-17.1GHz
Power Output @ Psat	20 Watt Min / 30 Watt Max	CW
Power Output @ P1dB	20 Watt Min	CW
Power Gain	43 dB Min / 45 dB Max	
Power Gain Flatness	1.0 dB p-p Max	0.6dB Max over any 25MHz
Gain Adjustment Range	25 dB Min	0.25 dB Steps Typ
Gain Stability	0.7 dB/day over 10° - 25°C	
Input / Output Return Loss	-15 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	<-38 dBc Typ	31dBm/Tone, Δ = 1MHz
Harmonics	<-60 dBc Max	Output LPF
Spurious	-60 dBc Max	Non-harmonics
Noise Figure	14 dB Max / 12 dB Typ	
Operating Voltage	100 - 240 VAC	47 - 63 Hz
Power Consumption	500 Watt Max	At rated Pout
Input Power Protection	+10 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	Auto shutdown @ >5:1
Forward / Reverse Monitor	30 dB Coupling Factor	
Interlock Attenuation	-60 dB @ 100 mS	Independent of any control

## ENVIRONMENTAL CHARACTERISTICS

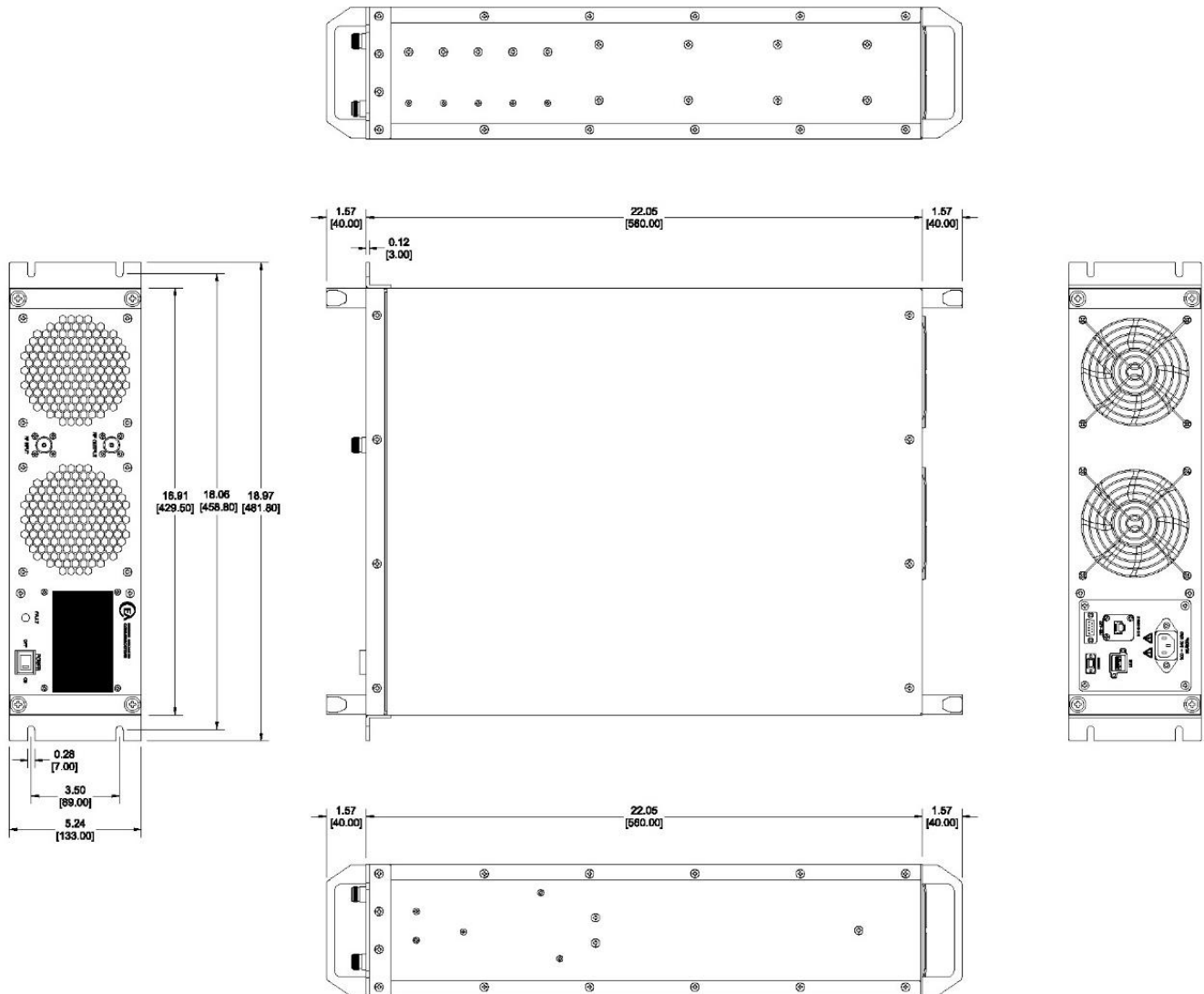
Parameter	Specification	Notes
Operating Ambient Temperature	5 to +45 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	560 x 133 x 430 mm	R3U - Excluding handles
Weight	20 Kg. Max	
RF Connectors In / Out / Sample ports	SMA Female	
AC Power / Interface Connector	Souriau CL1M1102	Or equivalent
Mute Interlock	MS3112E10-6S	
Ground	10-32 Stud	
Cooling	Built in Fan Cooling	
<b>INCLUDED:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB IEEE GPIB Interface	Optional Remote Bluetooth application

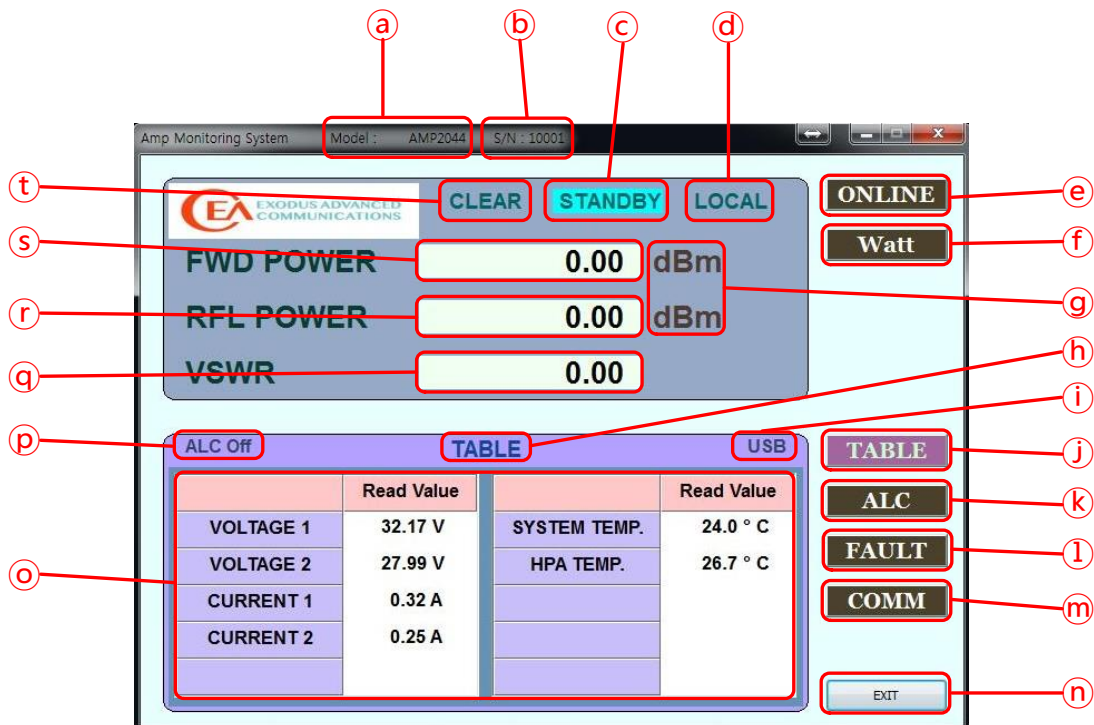
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## OUTLINE DRAWING WITH DIGITAL CONTROL (LCD)



## REMOTE CONTROLLER INTERFACE SOFTWARE

### PRIMARY (MAIN) WINDOW



- a Model: Connected model number.
- b S/N: Serial number of the connected model.
- c STANDBY/ONLINE: Display system STANDBY/ONLINE status.
- d LOCAL/REMOTE: Display system LOCAL/REMOTE status, REMOTE mode is optional.
- e ONLINE/STANDBY: System ONLINE/STANDBY 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.