



# AMP4081P-CTL SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted system
- Class AB linear GaN design
- Instantaneous wide bandwidth
- Designed for broadband EMI/RFI, Lab, Comm., and EW applications
- Suitable for all single channel modulations standards
- Built-in protection circuits
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	17.0 - 17.7 GHz	700MHz BW
Power Output Pulse Peak	100 Watt Min	Pulse
Pulse Characteristics	<b>Width</b>	
	0.25 - 50 μS	
	<b>Duty</b>	
	7 % Nom	
	<b>Droop</b>	
	<1 dB	
Turn On / Off delay	<250nS / <50nS	
Tx-Gate Pulse Width	0.25 μS Min / 50 μS Max	
Power Gain	50 dB Min	0dBm for normal operation
Power Gain Flatness	2.0 dB p-p Max	
Input / Output Return Loss	-10 dB Max	Relative to 50 Ohm
Harmonics	-30 dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC Nom	
Power Consumption	200 Watt Avg. Max	7% Duty @ rated Pout
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1	Output Isolator

## ENVIRONMENTAL CHARACTERISTICS

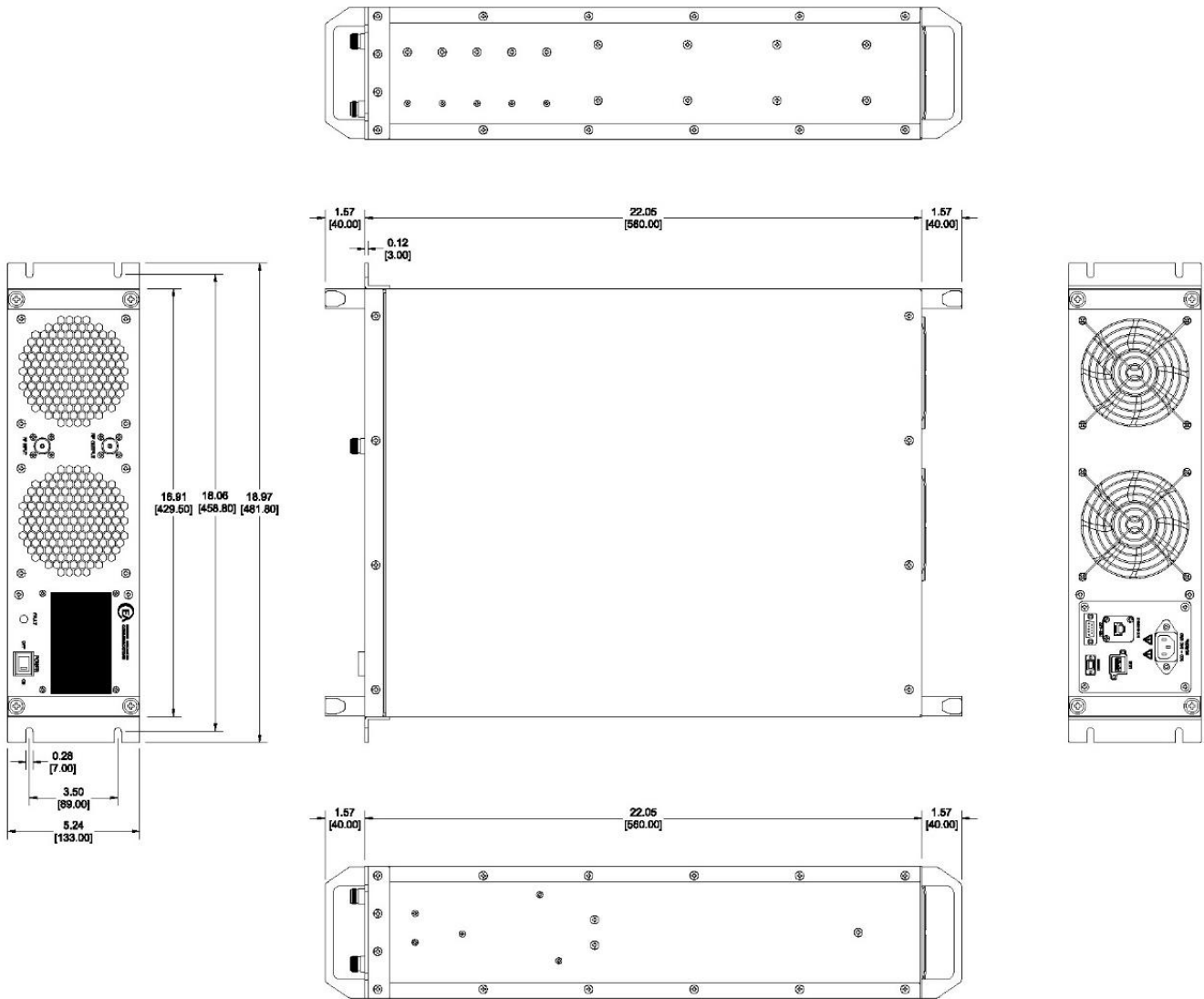
Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	560 x 133 x 430 mm	R3U - Excluding handles
Weight	20 Kg. Max	
RF Connectors In / Out	Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Forced Air Cooling	Variable speed
<b>OPTIONAL:</b> Digital Monitor & Control	Ethernet RJ-45 TCP/IP, RS422/485, USB	
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Optional GPIB Interface	

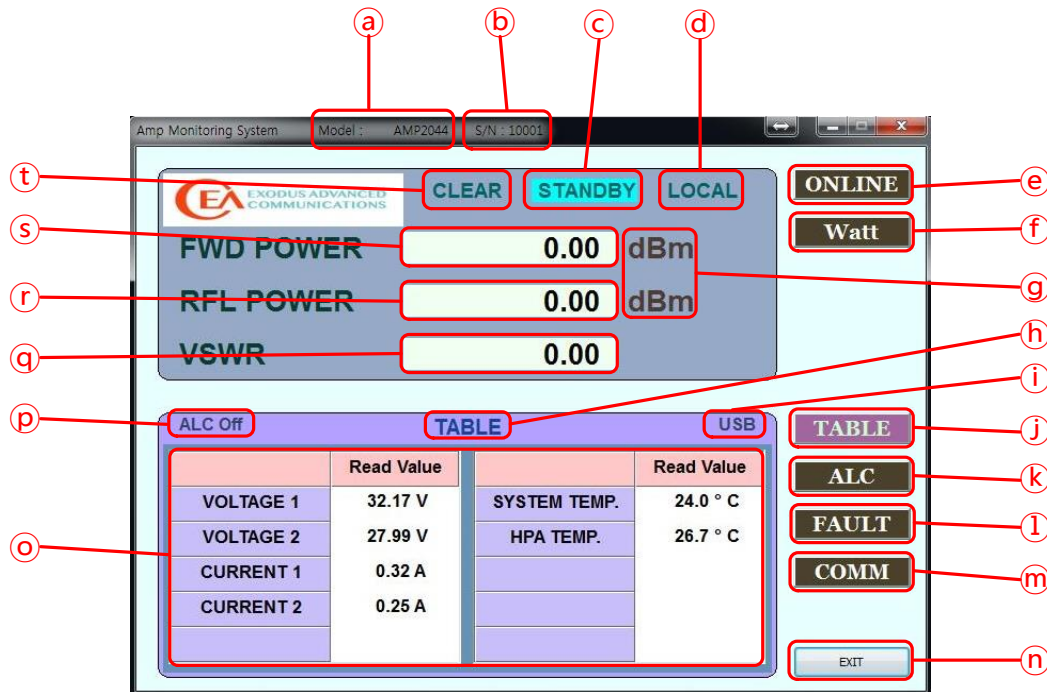
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## OUTLINE DRAWING



## 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.