

Solid State Power Amplifier

700-2300 MHz, 200 Watts — Model BHED78238-200

Stellant PST introduces its rack-mounted wideband high-power solid-state RF amplifier. Integrated with a proven RF GaN Power Amplifier Module designed into a single 19" rack, rigorously tested at rated power over temperature into a 2:1 VSWR load to ensure reliability.

The standard model features an internal AC power supply, full Ethernet interface with GUI control, front panel digital display for power, temperature, and current, plus separate fault LEDs. Designed for communication, electronic warfare, and radar transmitters, it supports ground, surface, and airborne platforms. This commodity is EAR ECCN 3A611.x. Call us for more details.



KEY FEATURES

- High Power Output
- Instantaneous Multi-Octave Bandwidth
- Gallium Nitride (GaN) Technology
- Rugged Field Proven Construction
- Multi-Tone Capability
- Ethernet Interface
- Fast Noise Quieting Speed
- Class AB Amplifier
- Digital Display and Control
- ALC Circuitry

SPECIFICATIONS




Frequency Range	700-2300 MHz
RF Power Output (P3dB)	200 W Minimum, 250 W Typical
Gain	53 dB ± 0.5 (ALC)
Gain Flatness	0.25 dB over any 25 MHz
RF Input Power	0 dBm Typical
RF Input Overdrive	+8 dBm Max
DC Bias	AB Linear
Modulation Format	Multi-tone/CW/AM/FM/Pulse
Input VSWR	2.0:1 Typical
Output Load VSWR	2.0:1 Typical
Harmonic	< -13 dB Maximum
IM Products	< -18 dBc Typical
Spurious	< -50 dBc Typical
Stability	Open/Short Tested
Fault Protection/Monitoring	Fault Indication (Over Temperature, Power Supply, VSWR Turndown)

Control Interface	Ethernet/RS-422
PS On/Off	Low Volt. TTL
AC Input	100-265VAC 50-60Hz 1-Phase
Display	Digital Status and Control
Noise Power Output	
Quieted	-150 dBm/Hz Maximum
Transmit	-86 dBm/Hz Typical
RF Connectors	
RF Input/Output	Type-N
Operating Temperature	-10 to 50°C
Environmental	Shock/Vibration MIL-STD-810G
Humidity	95% Non-condensing
Altitude	10,000 ft
Size	24" x 19" x 5.25"
Weight	60 lbs

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