

# Solid State Power Amplifier 700-2300 MHz, 6000 Watts

## Model BHED78238-200

### Overview

Stellant PST proudly introduces its latest rack mounted wideband high power solid state RF amplifier. Comtech has integrated its proven RF GaN Power Amplifier Module designs into a single 19" rack. Stellant consistently evaluates its amplifier performance at rated power over the temperature range into a 2:1 VSWR Load therefore we always meet customer expectations. Our latest Standard Model features an internal AC power supply, full Ethernet Interface/GUI Control, Front Panel Digital Display for Forward and Reverse Power, Temperature, Current etc, and separate Fault LEDs. These highly integrated designs are ideal for use in communication, electronic warfare, and radar transmitter systems where self-contained full amplifier solutions are a necessity. Applications include ground mobile or fixed, surface, and airborne platforms. This commodity is EAR ECCN 3A611.x. Call us for more details.



### 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 to 2300 MHz	• Control Interface:	Ethernet/RS-422
• RF Power Output (P3dB):	200 Watts Minimum 250 Watts Typical	• PS On/Off:	Low Volt. TTL
• Gain	53 dB +/- 0.5 (ALC)	• AC Input	100-265VAC 50-60Hz 1-Phase
• Gain Flatness	0.25 dB over any 25MHz	• Display	Digital Status and Control
• RF Input Power:	0dBm Typical	• Noise Power Output:	
• RF input Overdrive:	+8 dBm Max.	Quieted	-150dBm/Hz Maximum
• DC Bias:	AB Linear	Transmit	-86dBm/Hz Typical
• Modulation Format:	Multi-tone, CW, AM, FM, Pulse	• RF Connectors:	
• Input VSWR:	2.0:1 Typical	RF Input/Output	Type-N
• Output Load VSWR:	2.0:1 Typical	• Operating Temperature:	-10 to 50°C
• Harmonic:	<-13 dBc Maximum	• Environmental:	Shock/Vibration MIL-STD 810G
• IM Products:	<-18 dBc Typical	• Humidity	95% Non-condensing
• Spurious:	<-50 dBc Maximum	• Altitude	10,000 Feet
• Stability:	Open/Short Tested	• Size:	24" x 19" x 5.25"
• Fault Protection/Monitoring:	Fault Indication (Over Temperature, Power Sup ply, VSWR Turn-down)	• Weight:	60 lbs.

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