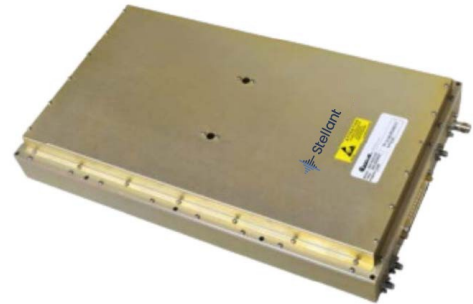


# Solid State Power Amplifier Module

## 1000-2000 MHz, 300 Watts — Model BME1929-300

Stellant PST introduces high-power solid-state RF modules, enhancing RF power density and efficiency in its advanced GaN amplifier designs. Leading in GaN-based RF technology, these compact, high-performance modules excel in communication, electronic warfare, and radar systems for ground, surface, and airborne applications where space, cooling, and power are constrained.



### KEY FEATURES

- Highest Power Density to Footprint Ratio
- Ultra Wideband Operation
- Highest Efficiency Over the Entire Bandwidth
- Rugged and Reliable
- Extreme Temperature Range Usage
- RF Input/Output Sample Ports
- Internal DC to DC Converters
- Optional T/R Pin Switch Available
- Suitable Building Block for Rack Mounted Systems

### SPECIFICATIONS




Frequency Range	1000-2500 MHz
RF Output Power (P3dB)	250 Watts Typical
Saturated Power Output	280 Watts
RF Input Range	-20 to -10 dBm Typical
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 (In Band 2nd/3rd)	< -13 dBc Typical
IM Products (4 Tones)	< -13 dBc Typical
Spurious	< -60 dBc
Stability	Open/Short Tested
Built in Test	Composite Fault Indication (Over Temperature, Over Voltage, Over Current)

RF In/RF Out Sample Ports	Yes
Control Interface	RS-422 SPI
PA Enable/Disable	Low Volt. TTL (<5µS) 3.3V
DC Input	18-32 VDC
DC Power @ 24V	1200W Typical
Efficiency (DC to RF)	25% Typical
Noise Power Output	-80 dBm/Hz Typical
<b>RF Connectors</b>	
RF Input and Sample Ports	SMA (3X)
RF Output	TNC-Female
Interface Connector	D-Subminiature
Operating Temperature	-40 to 85°C Baseplate (external heatsink required)
Environmental	Shock/Vibration MIL-STD- 810F
Size	15" x 9" x 2.25"
Weight	14.5 lbs

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