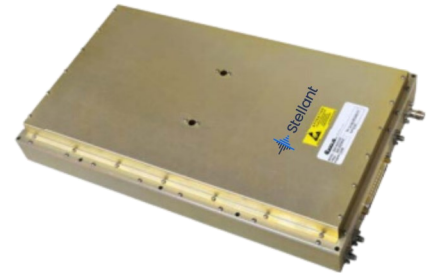


# Solid State Power Amplifier 1000 to 2000 MHz, 300 Watts

## Model BME1929-300

### Overview

Stellant PST proudly introduces the highest power solid state RF modules available in the marketplace today. Stellant's latest development expands on its proven innovative integrated RF GaN Power Amplifier designs by further increasing the RF power density, while improving overall operating efficiency. Consistent with its planned technology development roadmap, Stellant is leading the field with the latest in GaN-based RF device performance and advanced amplifier development. These highly integrated designs are ideal for use in communication, electronic warfare, and radar transmitter systems where space, cooling, and power are limited. Applications include ground (dismounted, mobile or fixed), surface, and airborne platforms.



### 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

### Performance Specifications

• Frequency Range:	1000 to 2500 MHz	• RF In/RF Out Sample Ports:	Yes
• RF Power Output (P3dB):	250 Watts Typical	• Control Interface:	RS-422 SPI
• Saturated Power Output (Psat):	280 Watts	• PA Enable/Disable:	Low Volt. TTL (<5μS) 3.3V
• RF Input Range:	-20 to -10dBm Typical	• DC Input:	18-32Vdc
• RF input Overdrive:	20 dBm Max.	• DC Power @ 24V:	1200W Typical
• DC Bias:	AB Linear	• Efficiency (DC to RF):	25% Typical
• Modulation Format:	Multi-tone, CW, AM, FM, Pulse	• Noise Power Output:	-80dBm/Hz typical
• Input VSWR:	2.0:1 Typical	• RF Connectors:	
• Output Load VSWR:	2.0:1 Typical	RF Input and Sample Ports:	SMA (3X)
• Harmonic (In Band 2nd/3rd):	<-13 dBc Typical	RF Output:	TNC-Female
• IM Products (4 Tones):	<-13 dBc Typical	• Interface Connector:	D-Subminiature
• Spurious:	<-60 dBc	• Operating Temperature:	-40 to 85°C Baseplate (external heatsink required)
• Stability:	Open/Short Tested	• Environmental:	Shock/Vibration MIL-STD-810F
• Built in Test:	Composite Fault Indication (Over Temperature, Over Voltage, Over Current)	• Size:	15" x 9" x 2.25"
		• Weight:	14.5 lbs.

### Power Systems Technology (PST)

105 Baylis Road  
Melville, NY 11747  
T: 631-777-8900

417 Boston St.  
Topsfield, MA 01983  
T: 978-887-5754



[www.Stellantsystems.com](http://www.Stellantsystems.com)



For more information, contact  
[Sales-PST@stellantsystems.com](mailto:Sales-PST@stellantsystems.com)

- Weight: