

The SPA10 S-Band RF Power Amplifier is a high-performance solid-state power amplifier module. It delivers up to 10 watts across S-band frequencies driving by ADV-24 modem.

With a high efficiency operation based on state-of-the-art Gallium Nitride (GaN) power amplifier device technology, the SPA10 module is ideal for RF telemetry and military communication systems that require reliability and minimal power consumption.

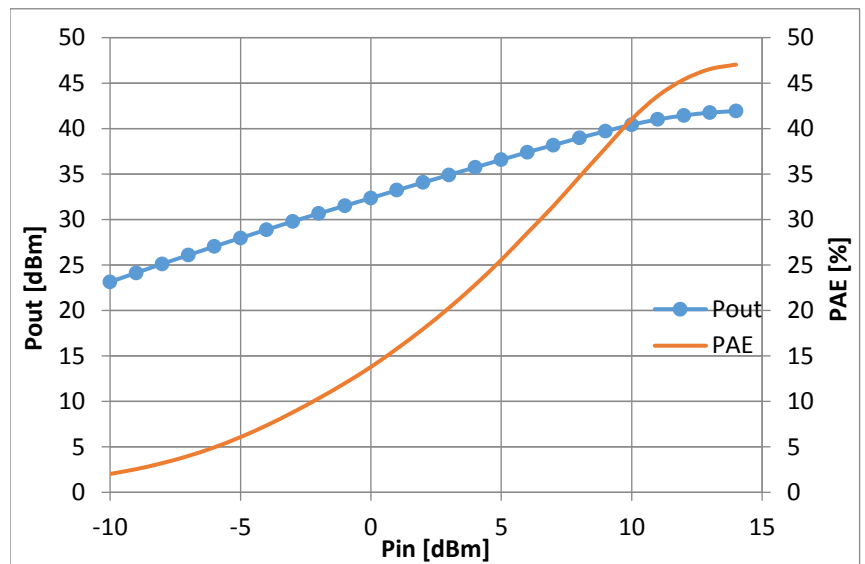
Contact ADVANTEN about customizing this PA to meet your exact system requirements.

FEATURES

- High efficiency & reliability
- GaN Technology
- High quality case
- Excellent thermal Management with low thermal resistance heat sink
- Tolerance for mismatch (protected by internal circulator)
- Overvoltage and reverse protection (internal fuse)

APPLICATIONS

- RF Communication Systems
- S-band RF Telemetry
- Unmanned Aircraft Systems (UAS)
- Unmanned Ground Vehicles (UGV)
- Unmanned Surface Vehicles (USV)
- Test Labs



SPECIFICATIONS

Operating Characteristics	
Frequency Range	2.4 – 2.5 Ghz (SPA10-D) 2.18 – 2.28 Ghz (SPA10-U)
RF Output Power (CW)	41 dBm / 12.5 W
RF Gain	29 dB
2 nd Harmonic	-55 dBc (max)
Nominal Drive Level (CW)	12 dBm
Maximum Input Drive Level (no Damage)	15 dBm
Operation Voltage	+24 to 32 VDC
Current Consumption (CW, 12dBm of input RF power)	1 A @28 VDC
Chassis Dimensions	119 X 46.5 X 72 mm including heat sink
Weight	475g
Operating Temperature	-30°C to +70°C
Storage Temperature	-40°C to +85°C
RF Connectors	SMA
Power Supply Connectors	Circular Connector