Solid State GaN Power Amplifiers (SSPAs)

CPI GaN Solid State Power Amplifiers provide high gain, and high efficiency.

X-Band Solid State Power Amplifiers

X-Band GaN 1.8 kW High Power SSPA
- Frequency range: 9.0 - 10.0 GHz
- BIT and controls
- Pulsed modules at 10% duty
- 1.8 kW peak power
- Easily combined to create high power X-band radar transmitters

X-Band GaN 1.0 kW High Power SSPA
- Frequency range: 9.0 - 10.0 GHz
- BIT and controls
- Pulsed modules at 10% duty
- 1.0 kW peak power
- Easily combined to create high power X-band radar transmitters

C-Band Solid State Power Amplifiers

C-Band GaN 4.0 kW High Power SSPA
- Frequency range: 5.4 - 5.9 GHz
- 1.1 kW pulsed module
- BIT and controls via EIA-422 remote connection
- Easily combined to create high power C-band radar transmitters

C-Band GaN 2.0 kW High Power SSPA
- Frequency range: 5.4 - 5.9 GHz
- 2.0 kW pulsed
- BIT and controls via EIA-422 remote connection
- Graceful power degradation
- Liquid or Air cooled options available

Ruggedized for use in pulsed airborne, naval and ground radar

Critical for today’s weather forecasting
Solid State GaN Power Amplifiers (SSPAs)

CPI GaN Solid State Power Amplifiers provide excellent stability, with excellent AM/PM and phase-noise performance.

S-Band Solid State GaN Power Amplifiers

- Frequency range: 2.7 to 2.9 GHz
- BIT and controls via EIA-422 remote connection
- 1.3 kW pulsed modules
- Built-in VSWR protection
- Compliant to NTIA regulatory requirements
- Provide high gain, excellent pulse fidelity
- Excellent pulse fidelity with low AM/PM, phase-noise and spectral regrowth performance
- Easy to maintain

For use in Air Traffic Control radar systems

S-Band GaN 12kW High Power Transmitters

- Transmitter cabinet with 12 kW minimum peak output power
- Soft fail by virtue of power combining
- Full redundancy
- >160 dB of power attenuation available
- Designed for ATC shelter applications

S-Band GaN 1.3 kW High Power SSPA

- 1.3 kW pulsed modules that can be power combined for higher peak power output
- Internal processor with BITE monitoring
- Self protecting

For use in Precision Approach Radar Transmitters

S-Band GaN 10 kW High Power Transmitters

- Transmitter with 10 kW minimum peak power output.
- Soft fail by virtue of power combining
- Excellent noise performance due to operation off of stored energy during the RF pulse
- Designed for small mobile applications

S-Band GaN 1.3 kW High Power SSPA

- 1.3 kW pulsed modules that can be power combined for higher peak power output
- Internal BIT circuitry via EIA-422 remote connection
- Self protecting
Solid State GaN Power Amplifiers (SSPAs)

CPI Solid State Pulsed Power Amplifiers

- Compact, reliable, and easy to maintain
- High efficiency and excellent pulse fidelity
- Individual amplifiers and complete transmitters

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<tr>
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<th>Frequency</th>
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<th>Interface</th>
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Communications & Power Industries SSPAs customized for your application.
With a history of producing high power, high quality products, we can help you with your SSPA questions.
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