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# 1kW X Band Pulsed SSPA for Extending Radar Range

Empower RF announces delivery of the model 2241, a GaN Solid State PA pulse emitter designed for new Radar applications where portability and extended range are key requirements. Across the operating band of 9 to 10GHz, the model 2241 provides over 1000W peak power in a compact 3U chassis. Flexible waveform handling is a key feature. The 2241 is capable of long pulses, high duty cycles, and a derated long pulse mode. The unit is controlled through the front panel touch screen, M2M SCPI, and peer/Lan connected PC and web browser with no software to install. Production Test Data Available upon request.

### Capabilities:

- Up to 20% Duty Cycle
- Up to 500  $\mu$ sec Pulse Width
- Up to 25kHz PRFs
- Derated Long Pulse Operation 2.2ms @200W
- Pulse Modulated or Gated Pulse Mode
- High VSWR 3:1 and Open/Short Protection

### Learn More About This Product:

[https://www.empowerrf.com/products/display\\_amplifier.php?sku=2241](https://www.empowerrf.com/products/display_amplifier.php?sku=2241)

### Download datasheet:

[https://www.empowerrf.com/datasheet/Empower\\_RF\\_Amplifier\\_2241.pdf](https://www.empowerrf.com/datasheet/Empower_RF_Amplifier_2241.pdf)

### Complete Empower RF Amplifiers lineup:

[http://www.empowerrf.com/products/rf\\_power\\_amplifier.php](http://www.empowerrf.com/products/rf_power_amplifier.php)



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*Empower RF Systems is the technology leader in high power amplifier solutions for reliable communications, defense, and industrial applications. Our products incorporate the latest semiconductor and power combining technologies and originate from an extensive library of “building block” designs. Solutions range from basic modules to multifunction PA assemblies with embedded real time microprocessor control.*

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