

FOR IMMEDIATE RELEASE

4KW S Band SSPA for Satcom Uplink

Empower RF Systems Model 2176 is a Compact Solid State GaN On SiC Amplifier Producing a Minimum 4K Watt CW and 2KW RMS at 3.6 PAR from 1750 to 2120MHz.

Empower's model **2176** is a compact high power GaN on SiC solid state CW amplifier. Standing 27 inches tall, it's less than half the size of the typical legacy uplink HPA's that it replaces. The slightly broader band brings flexibility to transmit in either of the two uplink channels. Besides the dramatic size reduction, the upgrade from legacy design to a next generation SSPA from Empower RF brings greater reliability and improved spectral purity for increased data rates.

The 2176 is based on Empower's established and field proven Next Generation architecture that is tactically deployed and operating on multiple levels in support of a variety of critical DOD missions.

The 2176 comes complete with internal directional coupler, external forward and reverse sample ports, and an easy to use web GUI. In depth health monitoring with alarms visible on the front panel are also pushed out via the LAN port. Output modes include Manual Gain Control (MGC), AGC and ALC which provide flexibility when integrating into legacy uplink systems. For critical "on air" applications, the 2176 provides "Graceful Output Power Degradation", backing down power to a safe operating level in the event of component failure or excessive Load VSWR condition.

Product Highlights

- Higher Availability
- Higher Efficiency
- 2X Improvement in SWaP
- Waveform Flexibility
- Rugged for Mobile Deployment
- Remote Monitoring and Control





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- Active RF Device Redundancy- Graceful Output Power Degradation

For technical application questions and to learn more on features that ease integration into your system hardware and software , please email your questions to sales@EmpowerRF.com or call (310) 412-8100 and press 2 for sales.

Learn More About This Product:

https://www.empowerrf.com/products/display_amplifier.php?sku=2176

Complete Empower RF Amplifiers lineup:

http://www.empowerrf.com/products/rf_power_amplifier.php

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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