

FOR IMMEDIATE RELEASE



1 to 1.4GHz Solid State Transmitter

8KW Long Pulse & Duty Cycle for Radar and EW

Empower RF Systems Model 2244 is a long duty cycle, pulsed transmitter operating from 1 to 1.4GHz, designed for maximum waveform flexibility. Configured for L-Band radar applications, the 2244 is the newest member of Empower's technologically advanced liquid cooled and scalable architecture. This new modern architecture offers scalability for affordable upgrade paths to future power needs by adding hardware to an existing system.

The 2244 transmitter layout consists of a system controller in a 3U 19 inch rack unit and 6 (expandable up to 16) hot swappable 2U amplifier drawers with each amplifier drawer containing an integrated power supply in its 2U chassis. There is no separate system level power supply. This arrangement eliminates the risk of an RF section or single power supply failure taking the entire amplifier offline. In the event of an RF pallet or PA booster failure only a fractional reduction of output power is realized, and the amplifier system remains on air. These Fast Field Replaceable (FFR) drawers allow hot or muted swapping with less than 15 minutes MTTR and you can watch a demonstration of fast field replacement of a PA booster at the video link included below. The result is a system with extreme Effective MTBF.

Breakthrough in Complex Waveform Handling

Sophisticated digital input and output RF detection algorithms measure Peak, RMS, and Envelope. Digital processing of the detectors allow capabilities not previously found on COTS pulse amplifiers.

- Asymmetrical/Random Pulse Widths and Duty Cycles
- 500KHz PRFs and 20% Duty Cycles
- 200ns to 500usec Pulse Widths
- Droop Correction Option Available
- CW operation – up to 2KW
- Optional Capability for Digitally Modulated Signals on the Pulse Carrier



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Learn More About This Product:

https://www.empowerrf.com/products/display_amplifier.php?sku=2244

Watch FFR (Fast Field Replacement) Video:

<https://www.empowerrf.com/press/video.php>

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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