

**FOR IMMEDIATE RELEASE**

# 1 to 2 GHz 40 KW Transmitter for Radar, Test, and EW

Empower RF Systems Model 2237 is a high performance, liquid cooled, pulsed transmitter operating from 1 to 2 GHz, designed for maximum waveform flexibility. Another variation of Empower's Gen3 platform, the 2237 is configured for L-Band radar, test, and EW applications. The deployment of the 2237, along with the previously announced 2244, further solidifies the solid state, high power, liquid cooled L-Band product baseline that has been developed. This new modern architecture offers scalability for affordable upgrade paths to future power needs by adding hardware to an existing system.



The 2237 transmitter layout consists of a system controller in a 3U 19-inch rack unit and 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. The result is a system with extreme Effective MTBF. You can watch a demonstration of fast field replacement of a PA booster at the video link included below.

## 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:

- Random Pulse Widths and Duty Cycles
- 500KHz PRFs and 10% Duty Cycle
- 200ns to 500usec Pulse Widths
- Droop Correction Option Available
- 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=2237](https://www.empowerrf.com/products/display_amplifier.php?sku=2237)

Learn More About Referenced Product:

[https://www.empowerrf.com/products/display\\_amplifier.php?sku=2244](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](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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**CONTACT**

Corporate Offices:

[sales@empowerrf.com](mailto:sales@empowerrf.com)

<http://www.EmpowerRF.com>

Empower RF Systems, Inc.

316 W. Florence Avenue

Inglewood, CA 90301

P: +1 (310) 412-8100

**MEDIA Contact**

Tatyana Safronova

Web & Print Media Manager

[tatyana.safronova@empowerrf.com](mailto:tatyana.safronova@empowerrf.com)

Tel: 310-412-8100 x124