

200W Smart Amplifier Module Purpose-Built for Critical C- UAS and EW Applications



Empower RF Systems announces the release of its new Model 1240, a compact, high-performance RF amplifier module delivering a guaranteed minimum of 200 watts across the 900–1700 MHz frequency range. Designed to address the evolving demands of modern electronic warfare (EW) and counter-unmanned aerial systems (C-UAS), the Model 1240 expands Empower RF's portfolio of tactically deployable, high-reliability solutions.

The Model 1240 is a full gain “smart module” built on advanced GaN transistor technology, integrating comprehensive control and monitoring features to ensure consistent RF performance under all environmental conditions. Its compact form factor and high power density make it ideal for mobile, airborne, shipboard, and ground-based defense platforms where space, weight, and reliability are critical.

What sets the Model 1240 apart is its strategically targeted frequency coverage. The 900–1700 MHz range aligns directly with operationally significant bands used in modern communications, navigation, and drone control systems:

- Cellular disruption: The 900 MHz band and adjacent ranges are widely used for GSM and cellular communications globally, making them key targets for signal denial.
- GNSS interference: GPS and GNSS systems operate within

the L-band (1–2 GHz), leveraging frequencies such as L1 (1575.42 MHz), L2 (1227.60 MHz), and L5 (1176.45 MHz) for accurate positioning and navigation

- Drone control and telemetry: The 900 MHz ISM band is commonly used for long-range drone command links and video transmission.

The introduction of the Model 1240 is not a replacement of existing solutions, but a strategic addition—giving system designers and integrators a new, high-power option tailored to real-world operational needs. By covering this spectrum, the Model 1240 provides a powerful tool for enabling or disrupting positioning, timing, and control systems.

To learn more about the Model 1240 and how it can enhance your C-UAS or EW system design:

Learn More About This Product:
https://www.empowerrf.com/products/display_amplifier.php?sku=1240

Download datasheet:
https://www.empowerrf.com/datasheet/Empower_RF_Amplifier_1240.pdf

RF Modules for Counter UAS:
<https://www.empowerrf.com/amplifier-notes/modules-counter-UAS.php>

Complete Empower RF Amplifier lineup:
http://www.empowerrf.com/products/rf_power_amplifier.php

Contact Empower RF today to discuss integration options and system-level solutions tailored to your mission requirements.

Empower RF Systems is the technology leader in high power amplifier solutions for reliable communications, defense, and other mission critical applications. Our products incorporate the latest semiconductor and power combining technologies and

originate from a common architecture and an extensive library of "building block" designs. Solutions range from basic modules to multifunction PA assemblies and high power transmitters with embedded real time FPGA and microprocessor control.