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# C Band Pulsed GaN SSPA for Radar

Combining an array of 12 amplifiers, the liquid cooled Model 2247 is a 30kW peak pulsed transmitter capable of long and short pulses between 5.4 and 5.9GHz. Designed for mission critical applications, the 2247 continues to stay on air with maximum available power in the event of component, power supply or amplifier drawer failure. Featuring a modular and distributed architecture, there is no single point of power supply or RF failure and availability is maximized. Servicing is easy, from the front. With no cabling to disconnect, the transmitter allows Fast Field Replacement (FFR) of any drawer, hot or muted swapping (depending on options). In both cases the MTTR is less than 15 minutes. The result is a system with extreme Effective MTBF and maximum availability.

## Features Include

- ▶ Optional "hot swapping" for maximizing "on air" time
  - ▶ Lower total cost of ownership due to efficiency, ease of maintenance and lower spare costs
  - ▶ Liquid cooled design provides low transistor channel temperatures for improved reliability
  - ▶ Digital self aligning electronic gain and phase adjustment maximizes RF output power
  - ▶ Use of fiber optics for high-speed data, mitigates EMI and spurious noise
  - ▶ Distributed, modular architecture, no single point of RF failure
  - ▶ Fast Field Replacement (FFR), MTTR under 15 minutes.
- Video demonstration here: [https://www.youtube.com/watch?v=Hdn0RHTa\\_D8](https://www.youtube.com/watch?v=Hdn0RHTa_D8)
- ▶ Quiet operation
  - ▶ Web API for ease of integration



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*Empower RF Systems is a technology leader in power amplifier solutions that are critical to defense, commercial, and industrial markets. Our products include solid state liquid-cooled amplifiers, air-cooled amplifiers and modules operating within the HF to X band range, in both CW and Pulse configurations. Fielded applications include EW, Radar, Satcom, Threat Simulation, Tactical Communications and Test. Use cases range from lab, to fixed site, airborne, ground mobile, and shipboard. Output power from tens of watts to hundreds of kilowatts.*

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