Compact, Versatile and Rugged 2KW L&S Band Jamming SSPA Gets Major Upgrade – Model 2180

Built for demanding missions, Empower RF's 2180 delivers 2 kW CW power across 1–2.5 GHz with flexible CW and pulse operation. High mismatch tolerance, selectable AGC/ALC and accurate monitoring support dependable performance. Configured presets allow dynamic changes to mission profiles. TCP/IP or UDP connectivity, health alarms and browser-based control simplify integration and remote oversight.



Now Featuring the Gen 3 Controller

The 2180 now ships with Empower RF's Gen 3 controller, an upgrade for the air-cooled amplifier line built on the controller architecture of the Gen 3 liquid-cooled family. A more powerful embedded computing module drives the system, and shared hardware across air-cooled and liquid-cooled platforms

brings cross-platform commonality. Updated components improve lifecycle support and supply-chain resilience, and new chassis cosmetics and enclosure design complete the refresh.

A Larger, Easier-to-Use Touchscreen

The front-panel touchscreen grows from 4 inches to 7 inches. The larger display gives the redesigned GUI a cleaner layout, simpler navigation and a more tactile feel. Gain is set with a slider, faults stay visible along the side of the LCD, and a dark mode is available.

Integration and Reliability Enhancements

- Interlock input: Added in addition to the gate input.
- Flexible communications: The M2M, TCP and UDP protocol suite is unchanged but can now be switched remotely or from the front-panel touchscreen.
- Web API: A new Web API simplifies software integration.
- Cooler operation: EMI honeycomb filters on the fan openings increase airflow and lower radiated emissions. The system runs 15°C cooler.
- Optical isolation: An optical link connects the rear-panel Ethernet and serial ports to the motherboard, reducing EMI.
- Universal power connector: A bayonet 5-pin power connector, used on all future systems, supports single-phase, three-phase delta or three-phase Y power.
- Flexible detection: Peak, envelope and RMS detection is available for input, forward output and reverse output power.

Learn More About This Product: https://www.empowerrf.com/products/display_amplifier.php?sku=2180

Download datasheet: https://www.empowerrf.com/datasheet/Empower_RF_Amplifier_2180.pdf

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