



Go to the stars with high reliability, extended operating range, ruggedized power supplies all from Orchid Technologies.

## High Reliability, Ruggedized Power Supply

Orchid Technologies was selected to develop a High Reliability, Ruggedized Power Supply for use in demanding avionics applications. Optimization of Power Supply size and weight were critical to the design's success. Working closely with our component vendors, Orchid crafted a proven 150,000 Hour MTBF solution.

## Hot Swappable, Low MTTR, Light Weight

Maintainability, rapid field replacement, and light weight requirements added to the design challenge. A unique power-edge finger mating approach made hot swap and MTTR easy. Component weight is rarely a consideration in electronics design, however in this design each part had its own weight budget—including the circuit board.

## Demanding Output Requirements

High output voltage stability with low current noise is essential over the entire extended operating range. Brown-out detection, over and under voltage protection, and thermal protection are performed with an on-board power supply microcontroller. Advanced error detection and power supply status monitoring achieve extraordinary output performance.

## Orchid Technologies: Powering Avionics

The development of custom electronics products for our OEM clients is Orchid's entire business. High performance, high reliability custom avionics power supply design with rapid design cycles, demanding technical requirements, and unforgiving schedules sets us apart. Call Orchid Technologies today!



"Custom designed with high reliability as a requirement; Orchid's first delivery met 95% of our needs. A few tweaks and we're ready to blast-off! Nice work Orchid."

- Avionic Power Systems VP

