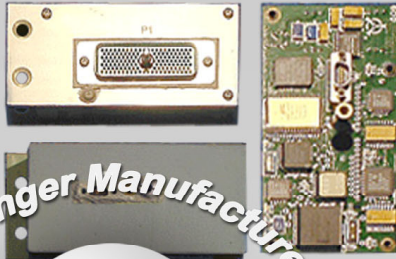


Data Logger Module



No Longer Manufactured



Tactical Power Supply



Obsolete Power Supply



DESCRIPTION

Many defense products need to be supportable over long periods of time, but face challenging difficulties from part or component obsolescence. Custom Manufacturing & Engineering™ (CME) provides engineering services to find optimum solutions for obsolete parts, products, and product life extension, supporting all areas of electronic and electrical fabrication, assembly, and test issues. Test equipment development experience is directly applicable to the resolution of obsolete parts issues and reverse engineering requirements. CME's focus on providing obsolescence engineering solutions includes:

- Service life extension
- Trade-off studies
- Obsolete component alternatives and equivalents
- Re-engineering and redesign

RE-ENGINEERING

CME's reverse engineering steps are conducted on equipment, units, and circuit card assemblies to provide updates for obsolete equipment or parts while seeking to avoid high replacement costs. We establish firm requirements and update the technical documentation as required.

These steps include:

- Document, repair, and recreate
- Obtain and update the following documents: Schematic Diagram, Bill of Materials, Assembly Drawing, Test Procedure, PWB Artwork

Reverse engineering quotes are provided for all cases where a repair is not feasible or is customer requested. The following process is implemented for reverse engineering:

- Identify and confirm obsolete parts for replacement or substitution
- Create schematic diagram and evaluate against specifications and documentation
- Redesign circuits to maintain seamless operations

Should PWBs require reverse engineering, the following steps are taken:

- Inspect and initiate dimensional measurements
- Remove components
- Repair or build a project prototype
- Conduct comprehensive inspections and analysis for fit, form, and function
- Produce, test, and qualify product for acceptance