

CORPORATE CAPABILITIES



DataMetrics™



FULLY MISSION CAPABLE™

COMPANY OVERVIEW

DataMetrics™ is a customer driven, application-specific solutions provider with core competency in the art and science of “ruggedization”. Our primary focus is the design, testing, development, and manufacture of electronic products into industries/applications where the readily-available commercial or industrial grade product would be subject to conditions and requirements that would render it ineffective or impractical for the user.



While the specifics of “ruggedization” take many forms, from strict MIL-specs to varied industrial requirements, we can use this simple definition: DataMetrics™ takes existing technology and applies “ruggedization” techniques to substantially increase the life and/or usability in adverse user-defined conditions. Products include commonly recognized devices such as LCD displays, computers, workstations, and printers, and lesser known systems such as VME chassis and various other electronic devices.

DataMetrics™ was founded in California in 1962 as a high-tech defense application and consulting firm, where it became the industry leader in the development of high-speed, non-impact printers for tactical military applications. Moreover, DataMetrics™ is one of the early pioneers in the ruggedization of Information Technology equipment to meet military specifications (MIL-Spec) where, today, it remains a worldwide leader. As the company grew, in 1998 it relocated current operations to a significantly larger campus setting in Orlando, Florida.

The company’s 43,000 square-foot manufacturing facility includes thorough testing capabilities, a certified IPC-A-610 trainer, and production assemblers certified to J-STD-001 for solder and workmanship. Annual ESD training is mandatory for all employees. In addition, DataMetrics™ Quality System, which is compliant to ISO 9001: 2000, has been audited by major defense contractors and government agencies.

PRODUCTS AND SERVICES

DataMetrics™ specializes in the design, development, and production of application-specific, Tempest, MIL-Spec, and high-reliability Ruggedized Commercial off the Shelf (RCOTS™) products, including:

- Printers/Plotters
- Portable, Vehicle-mounted and Stationary PCs, Workstations and Embedded Computers
- Standard and Custom VME and CompactPCI Chassis and Enclosures
- Conduction and Convection-cooled ATR Chassis
- Custom Backplanes
- Flat Panel Displays

Additionally, DataMetrics™ provides value-added services, such as:

- In-House Environment Testing (thermal, shock, vibration, etc.)
- System Integration (bundling of products to create fully integrated solutions)
- Engineering Design Services (custom and semi-custom Ruggedized solutions)
- Build-to-Print Capabilities (cables, circuit card assemblies (CCA), housing, test equipment, and metal work)

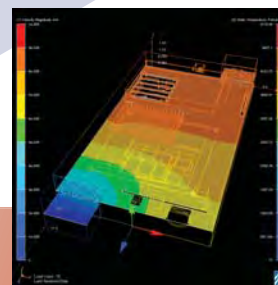
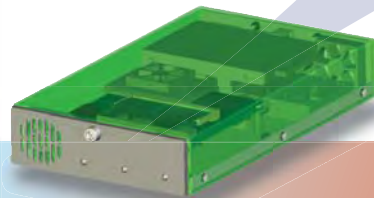
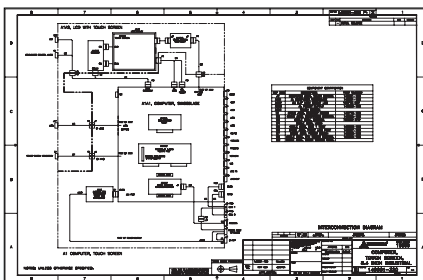


MANUFACTURING, ENGINEERING AND TEST/VALIDATION

DataMetrics™ acquired a 43,000 square foot facility in Orlando, Florida that serves as our worldwide headquarters as well as our central engineering design, test and manufacturing facility. In addition to our state-of-the-art products, we provide our customers with Engineering Services, System Integration and Test, Build-to-Print Assembly and Test, Printed Circuit Board (PCB) Assembly, Wire Harnesses, Cable Assembly, Mechanical Assembly, Environmental and Electrical Testing, and Design Validation and Testing. The company’s manufacturing operations comply with many industry and military standards and disciplines. Additionally, 100 percent of products manufactured are subjected to shock, vibration and environmental stress screening (ESS); inspection processes conform to the requirements of MIL-I-45208.

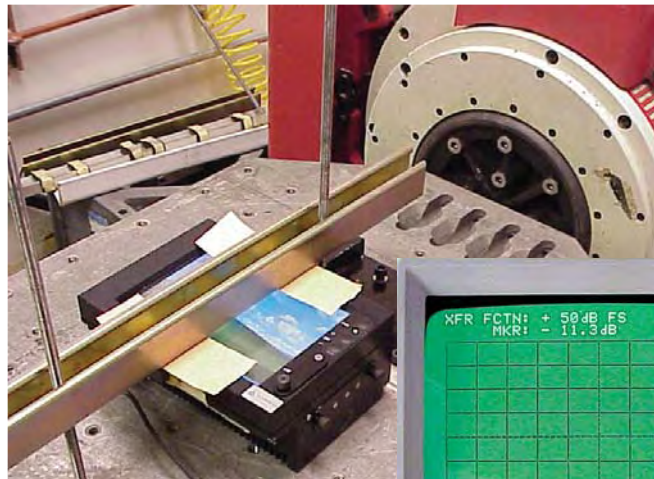
To meet the growing needs of the company’s high-reliability customer base, DataMetrics™ has an IPC certified solder instructor on staff. To further our in-house PCB assembly capability, our Electrostatic Discharge (ESD) program meets MIL-STD-1686C. Moreover, in-house testing capabilities meet MIL-STD-810F for environmental testing. These military standards are tailored to commercial use as well to ensure proposed concepts and systems are valid and functional in intended operational environments.

Today, the company’s official engineering CAD tools include **SolidWorks™** for mechanical modeling; **AutoCAD®** for producing manufacturing documentation included in manufacturing process instructions (MPI) as well as for cable harness drawings and wiring diagrams; **CFDesign™** for computational flow dynamics, including thermal and air flow analysis; and **Altium Designer™** for OrCAD-compatible schematic capture, printed circuit board layout and circuit simulation.



For each new design, DataMetrics™ validates the environmental integrity through extensive in-house qualification testing. Testing is performed in accordance with DataMetrics', industry/MIL, or customer-defined requirements for:

- Vibration and Shock
- Acoustic Noise
- Temperature Extremes, Humidity and Salt Fog
- Electromagnetic Compatibility
- Altitude
- Fungus, Sand and Dust
- Environmental Stress Screening (ESS)



ISO 9001:2000 CERTIFIED

DataMetrics™, received the 3rd party ISO certification in July 2006. In addition to ISO certification, DataMetrics™ holds the following certifications:

- ESD (Electrostatic Discharge) Facility Compliant to MIL-STD-1686.
- Calibration Program Compliant to ISO.
- Certified Compliant for Quality System, by Northrop Grumman of Melbourne, Fla.
- Air Agency Certificate for Manufacturer's Maintenance Facility, by the FAA, issued 10/21/1998.
- Environmental Testing Facility Compliant to MIL-STD-810 for vibration and temperature.
- Certified Soldering instructor on staff certified by IPC (Institute for Interconnecting and Packaging Electronics Circuits).

FAA CERTIFIED

DataMetrics™ is a FAA Certified Repair Station which operates under the FAR 145 set of guidelines. The FAA mandates specific regulations, rules, procedures, and repair station manuals under FAR 145 in order to keep DataMetrics™ products safe and functioning correctly in the field of avionics. In addition to the FAA certification, DataMetrics™ is a member of the Aircraft Electronics Association (AEA).



Certified Repair Station

Building on its expertise, DataMetrics™ has developed and manufactured high-performance, high-reliability electronic equipment for aerospace, defense, industrial, and commercial markets. For example, the DataMetrics™ Model 4680 Half-Page Cockpit Printer, approved by the Federal Aviation Administration, is used by commercial airlines around the world, including American Airlines, Japan Airlines, KLM and Thai Airways as a Miltope Model TP-4085 and TP-4185 drop-in replacement.

MILITARY PROGRAMS

DataMetrics™ has been a partner in the development of many military programs, including AEGIS, ARF, FALCON, FIREFINDER, JSTARS, MILSTAR, P3C AIP, PATRIOT, TCCCS-IRIS, SSN 774, OASIS, and BLO-10. As a result of these partnerships, many of our products are deployed in numerous active military programs. The following programs are currently using DataMetrics™ rugged equipment:

MILSTAR	US Air Force – Rugged flat panel monitors and printers
MILSTAR (F.E. Terminal)	US Air Force/Raytheon – Rugged HCI printers
MILSTAR (Command Post Terminal)	US Air Force/Raytheon – Rugged HCI printers
AFSATCOM (SMR)	US Air Force ESD – Rugged Printers
Minuteman (Launch Console)	US Air Force/Boeing – Rugged Printers
CRT replacement	RNLN (Royal Netherlands Navy) – Rugged Monitors
Patriot	US Army/Raytheon – Printers
OASIS	Raytheon/Lockheed Martin – VME, Integration
US-A1	KHI – Rugged PC, Monitor, Keyboard/Trackball
Crusader	DSP Con – VME
CHS-2	General Dynamics – Printers
Tacfire	Northrop Grumman/Litton Data Systems – Printers
FireFinder	Raytheon – Printers and VME ATR
ARF (Airborne Relay Facility)	Lockheed Martin/Owego – VME (airborne)
AN/BLO-10	Lockheed Martin – VME Chassis
AEGIS	Lockheed Martin/Navy - Naval Printers