Teletronics Technology Corporation is the total systems solutions provider to defense and commercial clients worldwide.
TTC is committed to 100% customer satisfaction. To this end, qualified support staff are available to assist with application design, system installation, ongoing system operation, maintenance and training.

About TTC
ENGINEERING SERVICES

PRODUCT DEVELOPMENT
TTC wholly accommodates COTS and modified, fully-customized products by maintaining required resources in-house in their entirety. In-house design, development, testing and manufacturing not only guarantees top quality products, it allows the fastest possible delivery to customers.

An internal design group provides schematic capture and printed wiring board and metalwork fabrication drawing development. TTC has advanced software to support solid and thermal modeling and dynamic system analysis. We maintain an on-site machine shop for quick-turn metalwork fabrication, and have in-house Surface Mount Technology (SMT) pick-and-place and reflow equipment for rapid assembly of prototype lots.

QUALITY ASSURANCE

RELIABILITY ENGINEERING
The Quality Assurance department at TTC uses reliability modeling and prediction to generate Mean Time Between Failure (MTBF) data, to conduct Failure Modes and Effects Criticality Analysis (FMECA) and for parts application and stress analysis.

PROCESS CONTROL
TTC adheres to AS9100B and ISO 9001:2000 guidelines for design, development, qualification, first-article inspection, process validation and control and documentation. Facility-wide ESD control is compliant with ANSI/ESD S20.20-2007. Every assembly is traced through manufacturing using process travelers. Operator proficiency is maintained by regular training and certification programs.

PRODUCT VALIDATION AND QUALIFICATION
TTC performance-tests and validates every piece of equipment before it ships. In-house environmental screening and qualification includes temperature, vibration, shock, altitude and humidity and recently, EMI/EMC testing. If a required test is not available onsite at TTC, fully-qualified third-party vendors complete it with minimal turnaround time.

EXTENDED ASSURANCE
Some data acquisition applications require expanded product assurance testing, and TTC is equipped for it! Optional available tests include extended product burn-in and environmental stress screening for temperature and vibration. TTC products are manufactured and inspected to ANSI/IPC-A-610D level 3 workmanship requirements, and all assemblies are subjected to visual inspection and performance testing.

In-house processing for SMT, JTAG Boundary Scan technology, through-hole soldering and numerous Automated Test Equipment (ATE) capabilities ensure that TTC ships only flaw-free equipment.

IN-HOUSE SERVICES AT TTC
➤ EMI/EMC TESTING FACILITY, MACHINE SHOP, FULLY EQUIPPED WITH CNC MACHINES, DRAFTING DEPARTMENT, ENVIRONMENTAL TESTING LAB, PRODUCT ASSEMBLY AND PICK-AND-PLACE MACHINES

QUALITY ASSURANCE

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BOEING 787 DREAMLINER
Boeing Commercial Airplanes selected TTC as a primary team supplier for the Dreamliner Smart Sensor network-based data acquisition system. TTC provides requirements analysis, specification development, architecture review, system integration and network-based data source interface delivery. The data source interfaces are based on the TTC-standard MCDAU-2000 series of data acquisition units.

M-346 JET TRAINER
The Alenia Aermacchi M-346 military trainer aircraft is used to develop piloting, navigational and other crew skills. TTC provided flight test instrumentation systems for the M-346 based on MCDAU-2000 miniature data acquisition units.

SPACE
The United Space Alliance (USA) purchased customized versions of the CDAU-2016 CAIS data acquisition unit for the STS Return to Flight Program. TTC designed, developed and qualified the hardware for use in a high-radiation environment.

MISSILE SYSTEMS
TTC supplies RF products used to provide tracking, flight control and command terminal capability. TTC’s multi-mode, high-efficiency power amplifier, 5.5 cubic inches in size, has been successfully implemented in various missile programs along with our miniature data acquisition systems.

F-22 RAPTOR
Lockheed Martin Aeronautics Company in Marietta, GA has responsibility for the F-22 Raptor critical systems and air vehicle surfaces. TTC is supplying the instrumentation data acquisition and recording systems including an AIM-2004, AIM-2006, HS-AVDAU-2006 and many MCDAU-2000 miniature CAIS data acquisition units installed throughout the aircraft, selected because of their small size, rugged construction and high performance.

FIRESCOUT VTUAV
Northrop Grumman Corporation (NGC) selected TTC to provide a CDAU-2006 CAIS data acquisition module configured with video, a 1553 bus and serial data acquisition instrumentation for its Fire Scout Vertical Take-Off and Landing UAV (VTUAV) vehicle, which is designed for reconnaissance and targeting missions.

GULFSTREAM
Gulfstream used TTC CDAU-20XX units with signal conditioning cards including Honeywell Avionics data bus monitors for its G450 and G550 aircraft.

MISSILE SYSTEMS
TTC provided a flight safety system for the U.S. Navy High-Speed Antiradiation Missile (HARM) that included a flight termination receiver that is compatible with legacy equipment and can be reconfigured to either the range safety test facility or at the factory.

TTC created the re-transfer system for the Lockheed Martin F-22 used to retransmit weapons bay telemetry with the bay doors closed, providing the test pilot with pre-launch, flight termination system verification during training test launches.

MISSILE SYSTEMS
TTC’s turn-key solution included the AIM-2004 airborne instrumentation multiplexer, the HS-AVDAU-2000 high-speed avionics DAU and CDAU-2016 data acquisition units.

APPLICATION TYPES
➤ COMMERCIAL AIRCRAFT
➤ MILITARY VEHICLES
➤ MISSILE SYSTEMS
➤ RPVS AND UAVS
➤ TERRESTRIAL VEHICLES
➤ LAUNCH VEHICLES

EXPERIENCE: TTC’S PROVEN SUCCESS
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