

CUSTOM ASSEMBLIES

TEXTRON Systems



Better, Faster, More Affordable Testing

AAI Test & Training's Automated Test Equipment (ATE) group designs, manufactures and installs custom test drawers, boards, cable harnesses and fixtures to accommodate unique customer test system requirements. The team can provide a single unit or volume production quantities, per customer needs. Each is backed by complete production documentation for future maintenance and replication.



CUSTOM ASSEMBLIES

AAI Test & Training's ATE group is located in Austin, Texas. The team's special assemblies for test systems offer reliable performance and workmanship to handle unique testing needs at an affordable price point.

Drawers

Custom drawers and subassemblies can be designed and fabricated to satisfy requirements including:

- Device under test (DUT) interfacing and control
- Signal mapping and cable routing
- Power supply assemblies
- Special DUT loads
- High voltage and current control



These are designed to customer specifications for interfacing, control, mechanical layout, cooling, maintenance and ergonomics. Assembled to IPC quality standards, each drawer is tested individually for adherence to specification prior to shipment.

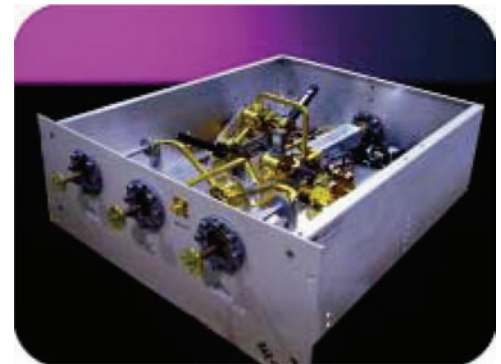
Radio frequency (RF)/microwave drawers to frequencies in excess of 50 gigahertz are available for high-frequency signal routing. Depending on customer requirements, these can include precision switches with low voltage standing wave ratio (VSWR) and loss, couplers, mixers, low-noise amplifiers, detectors, oscillators, filters and loads. In addition, the team's systems engineers can design RF chassis that are tested and guaranteed to meet customer specifications.

Boards

Commercial, off-the-shelf equipment may not suffice for applications such as:

- Special serial interfaces
- Custom DUT interface simulation
- Low-noise buffering and signal processing
- High-voltage switching
- Dense precision current sources

AAI Test & Training can design and deliver a wide range of custom boards based on the customer's choice of form factor (VXI, VMIP, VME, PXI or custom) and interface (General Purpose Interface Bus, or GPIB; Recommended Standard, or RS, 232; direct input/output, or DIO; printer port; local area network, or LAN; and Universal Serial Bus, or USB).



For RF applications, the team supplies boards that are impedance matched to 50 or 75 ohms, with low VSWR to minimize measurement uncertainty. In addition, boards with low-noise front ends and high common mode noise rejection are ideally suited to handle testing applications with low-level analog signal processing.

Cable harnesses

AAI Test & Training supplies cables for high-power, RF and optical applications, as well as general signal interfacing. The team works with customers to design the optimal solution for their test applications, replicating it in the desired quantity and delivering it along with comprehensive documentation.

Fixtures

Functional test fixtures are available for DUT interface, system self test and calibration. These can be provided in any mechanical format, based on customer specifications and ergonomic needs. AAI Test & Training also supplies functional test fixtures for component, board, assembly and system needs, as well as complex mechanical fixtures for unique applications.



For additional information, please contact:

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