

Custom Assemblies

Looking for a reliable source for special assemblies in your test stations? Symtx has the expertise and processes to supply these at a cost you can afford.

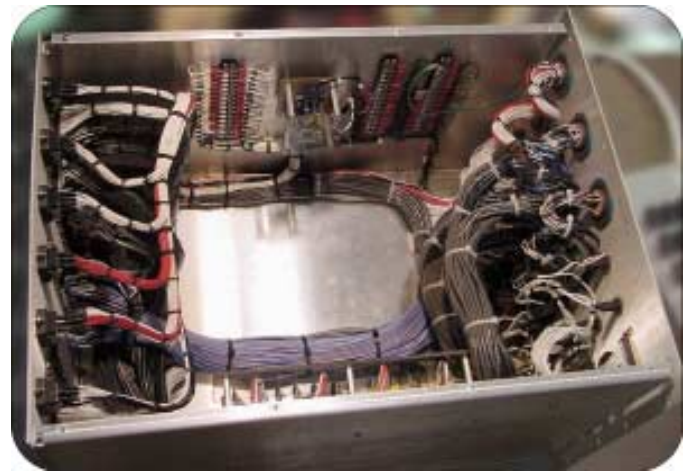
Symtx provides custom drawers, boards and cable harnesses to meet unique customer test system needs. These are provided with a complete set of production documentation, to allow for support and manufacturing of identical assemblies in the future if needed. They are fabricated from customer or Symtx developed designs, and provided in quantities from single unit to volume production.

Drawers

Symtx designs and fabricates the custom drawers and subassemblies needed to complete your test stations. Our engineers have designed a wide range of special assemblies to meet the unique needs of our customers, including:

- DUT interfacing and control
- Signal mapping / cable routing
- Power supply assemblies
- Special DUT loads
- High voltage / current control

These drawers are designed to meet your individual system requirements for interfacing and control, mechanical layout, cooling, maintenance and ergonomics. Drawers are assembled to IPC standards for quality and workmanship, then individually tested for adherence to specification prior to shipment.



Boards

We also develop a wide range of custom boards for situations where COTS equipment will not meet your needs, such as:

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

These boards are available in your choice of form factor (VXI, VMIP, VME, PXI or custom) and interface (GPIB, RS232, DIO, Printer Port, LAN, USB). For RF applications, we supply boards that are impedance matched to 50 or 75 ohms, with low VSWR to minimize measurement uncertainty. We also design boards to meet the special needs of low level analog signal processing, with low noise front ends and high common mode noise rejection.

Cable Harnesses

Symtx provides a cost effective solution for your complex cable harnesses. We supply cables for high power, RF and optical applications as well as general signal interfacing. Our engineers will work with you to design an optimal solution for your test needs, providing you with complete documentation. Symtx can then fabricate your harness in any quantity you require, including single units.



RF Drawers

For high frequency signal routing, Symtx supplies special RF / Microwave drawers to frequencies in excess of 50 GHz. These drawers include not only precision switches with low VSWR and loss, but any other RF/microwave components required to meet your test requirements, such as couplers, mixers, low noise amplifiers, detectors, oscillators, filters, and loads. Our system engineers are available to design an RF chassis that meets your unique performance requirements. Each chassis is completely tested and guaranteed to meet these specifications.

Refer to our Microwave Switch Matrix Platform datasheet for more details.



Fixtures

Symtx develops functional test fixtures for DUT interface, system self test and calibration. These can be provided in any mechanical format desired to meet your specification and ergonomic needs. We supply functional test fixtures for component, board, assembly and system level needs, as well as complex mechanical fixtures for unique applications.

Refer to our Interface Test Adapters and Fixtures datasheet, and our Calibration and Self Test datasheet for more information.



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