Products Guide
The SCOUT from MAC Panel is a configurable Mass Interconnect system that provides a PCB or short wire interconnection for your PXI based test system.

Each PXI instrument is attached to a receiver connector module via a Direct Access Kit (DAK) adaptor, providing direct connectivity between the PXI instruments and the SCOUT receiver.

All instruments are easily installed or removed through the front of the receiver, without disturbing the system wiring. DAK adapters utilize standard MAC Panel TITAN Series connector modules, providing a wide variety of contact types: with signal, power, coax, RF and hybrid combinations available. The connection between the PXI instrument and receiver module is accomplished using either printed circuit boards or flex circuits, providing optimum connectivity performance while reducing wiring cost. Where a wired solution is preferred, the DAK adapter provides for a short wire alternative to traditional hinged mass interconnect receiver designs.

The TITAN Series from MAC Panel is an ideal general purpose interconnect for VXI, PXI, LXI and GPIB based ATE systems.

With an extensive Mass Interconnect I/O variety and density available, TITAN interfaces are available in 2, 5, 10, 15 and 25 connector module configurations, offering up to 5000 connections.

TITAN Series connector modules are available to suit all I/O requirements including a variety of high density signal and power connectors up to 50 amps. RF connectivity is also available in a variety of options ranging from DC - 40 GHz, including options for twinax and triax.

The TITAN module design allows for a higher density of I/O per connector slot compared to traditional Mass Interconnect systems. For example, the hi-density signal module accommodates up to 200 analog or digital connections in a single connector slot.

Whatever the instrument configuration, TITAN can provide a reliable and cost effective general purpose interface solution.

LIF Connectors are Low Insertion Force, pin and socket connectors for use as a more rugged alternative to standard ZIF connectors and drop into the same "footprint".

Connecting and disconnecting the LIF connector is easily achieved using a centrally mounted "half turn" engagement mechanism. Simply rotate the mechanism handle 180 degrees to either engage or disengage the LIF mating halves. Polarizing kits are available to provide each connector used a unique identity.

The pin and socket contacts used in the LIF connector provide excellent and consistent electrical characteristics. The robust design of the contacts yield an operational specification of over 50,000 mating cycles.

LIF is particularly suited to applications that require frequent connects/disconnects or for projects that require very long term in service reliability, for example the aerospace or defense support programs.

A variety of standard back shells are available from MAC Panel. We can also design and manufacture custom back shells, or mounting hardware to suit specific application requirements.

LIF is available in 96, 156 and 260 contacts configurations.
CTI

CTI is designed to the IEEE 1505 basic specification for interconnect standard test interfaces. The 1505.1 specified system is scalable from a core unit of 4 slots up to 26 slots in combination of 4-4-14-4 segments. The pin map is defined by specification and contains power, signal and micro-coax contacts.

SERIES 08

The Series 08 Interface System is built to meet the rigorous standards of the U.S. Navy (CASS) and meets all of your Test Program Set (TPS) development needs.

SERIES 64

The Series 64 Interface System allows configuration interchangeability with 25 or 50 slots. The Series 64 is a Hinge-Down design that allows for discrete wiring of the PXI, LXI, VXI and GPIB instrumentation.

MPX Connector

The rugged, low profile, high cycle life MPX Connector Series provides high density and reliable performance. The receiver base and ITA hood may be engaged and disengaged quickly with one hand. By using high cycle life, low insertion force pin and socket contacts, the MPX is able to perform under high shock and vibration conditions, where other connectors fail. A variety of signal, power and coax contacts can be used. The MPX Connector Series is ideal for use with interface test adapters (ITA’s), rack and panel, or industrial applications.
SERIES 75 and ARINC 608A/F-22 CATS

Series 75 Interface Systems have set the standard for the ARINC 608A, F-22, and many Agilent test stations. The Series 75 is ideal for both VXI and GPIB applications.

To maximize the cost efficiency while enhancing the performance, PC Boards are utilized in the Direct Access Kit. Series 120 products are available in Hinge-Down or DAK configurations. The Hinge-Down system allows test probing to be done at the front of the instrument or at the pins located within the interface receiver. The DAK system uses adaptors between the VXI instrument and the Series 120 connector module. The user has the ability to pull the interface connector and the VXI instrument out of the mainframe as one assembly. The DAK system eliminates the need to disconnect any wiring from either the connector module or the VXI instrument.

SERIES 120

Series 120 Interface System is ideal for your VXI applications. The connector modules are designed on 1.2” centers, providing a 1 to 1 match with VXI instruments.

MAC Panel is the only tested and certified supplier for the General Purpose Interface (GPI) and Interface Device (ID) hardware for the LM-Star. MAC Panel provides an assortment of patch-cord, connector and enclosure solutions to meet the test engineers needs.

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