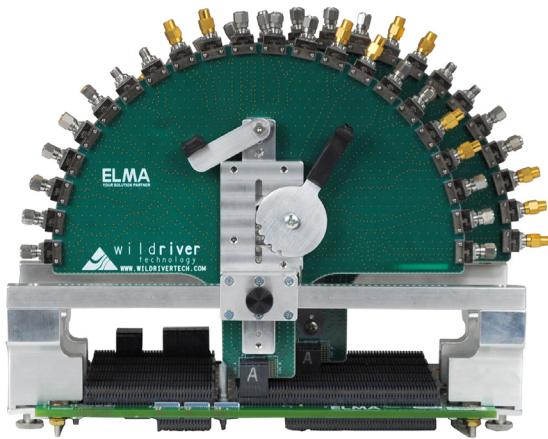
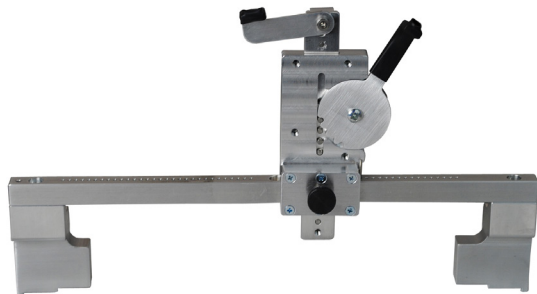


VPX Channel Characterization Backplane Probe Card and Test Fixture



VPX Probe Card Test Fixture



**Patented Fixture with
Support Blocks and Mounting Beam**

Description

Elma's Backplane Probe Card Test Fixture enables characterization of differential VPX backplane channels between any two points on any 3U or 6U VPX backplane. Designed for use on backplanes intended to support PCIe 2.1 (5.0 Gbps), Infiniband DDR (5.0 Gbps), Serial Rapid IO 2.2 (6.25 Gbps), PCIe 3.0 (8Gbps), Ethernet 10GBASE-KR (10Gbps), Infiniband QDR (10 Gbps) or Infiniband FDR (14.4 Gbps) signaling. Today's high speed VPX systems require extremely accurate channel characterization analysis in order to ensure optimal system level performance in critical applications.

Features

- Designed to instrument 4 consecutive VPX connector rows for a total of 8 differential pairs and two single-ended signals
- Secure mechanical mounting for precise and repeatable setup
- Fixture accommodates 3U and 6U backplane testing using the guide pins on the backplane for precise and repeatable location registering
- Facilitates de-embedding of the test fixture and cables for precision measurement of the interconnect signal path only

Test Set Includes

- Two 12-layer VPX probe cards designed for insertion into any VITA 46.0 compliant backplane. Designed to allow adjacent slot testing including the first row and the bottom most rows of the backplane connectors
- One 12-layer calibration card containing structures necessary to de-embed the stripline trace (including SMA launch) from the measurements taken with the VPX probe cards
- Patented aluminum fixture for rigid and repeatable insertion of the probe card into the backplane under test and for mechanical stability while plugging and unplugging VNA cabling into the SMA connectors

Related Products



Development Chassis

Open access development chassis are designed for lab use in product and application integration activities.



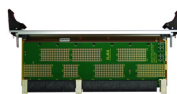
Development Cabling

Cabling assemblies for backplane and system development activities.



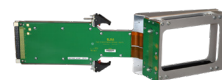
Load Boards

Characterize system cooling and power requirements with VPX load boards.



Custom RTMs

VPX RTMs bring I/O off the rear of the backplane for system development purposes.



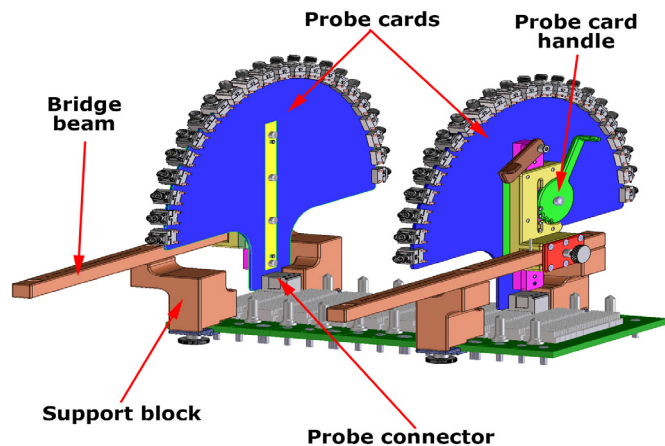
Extender Boards

Extender boards are intended to extend plug-in cards outside of the card cage area for easier testing.

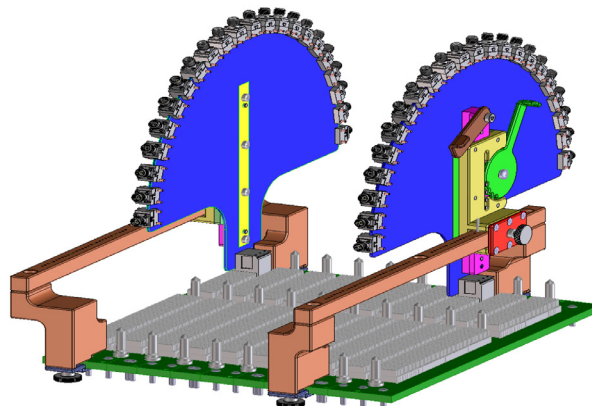
VPX Channel Characterization

Backplane Probe Card and Test Fixture

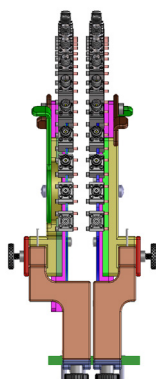
Fixture Diagram



3U VPX Backplane set-up



6U VPX Backplane set-up



Fixture allows adjacent slot testing including the first row of J0 or J3 if needed and last row of J2 or J6.

For usage information please inquire about our VPX Backplane Test Set Application Guide

Order Information

Description	PertNumber
VPX Backplane Probe Card Test Fixture - Mechanical fixture, two probe cards, and one calibration card	39T-2XPSPC-TK1

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