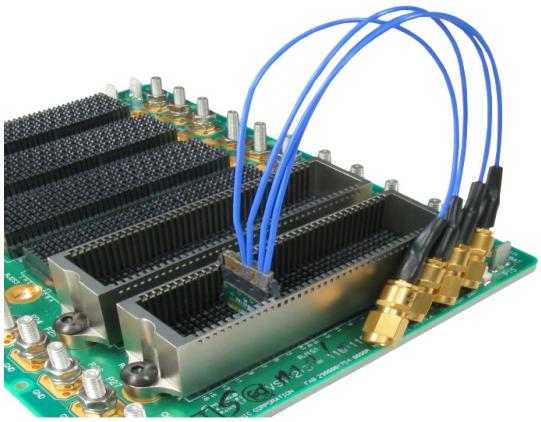
ELMA System Accessories

VPX Cable Assemblies

ELMA Your Solution Partner



Cables and cable shrouds on a VPX backplane

Description

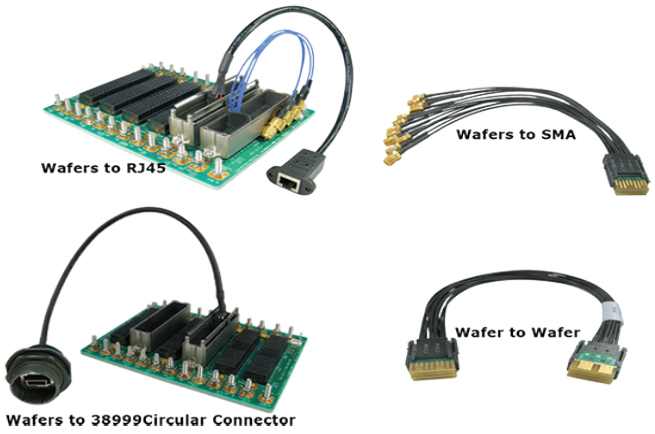
Sometimes enclosures, such as ATRs, do not have room for rear I/O module options, or the modules do not offer suitable performance. Elma's VPX cabling assemblies provide a rugged and robust alternative with a high-speed connection that is plugged directly into the EPT Velox connector in single or multi-wafer formats.

Compliant to the latest VITA 46 specifications, the cabling assemblies are ideal for for system development. They can be used for I/O to bulkhead connectors and slot-to-slot connections. The direct cabling system also has front-plug versions, which allow testing across the backplane or full interconnect path.

Features

- Direct connection alternative to RTM solutions for VPX
- Pulls signals from slot to slot and/or chassis to chassis with virtually no signal degradation
- Fully scalable & stackable to meet application needs
- Plug directly into backplane to SMA or other contacts for signal test setups
- Resistant to shock and vibration
- Optional cable shrouds provide mechanical stability

OpenVPX



Connector shrouds are available to help guide the wafers during insertion into the backplane connectors without stubbing. They provide mechanical stability to the wafers and have a latch mechanism that provides tactile feedback indicating when the cable wafers are fully inserted. Shrouds also provide attachment points for deployment rails that provide positive retention of the cable wafers and also provide an attachment point for ty-wraps to support the heavy bundle of coaxial cables exiting a shroud.

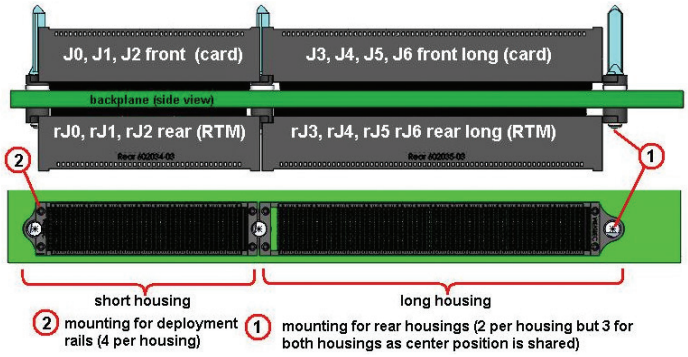
Related Products and Applications

- High speed image data recording for surveillance applications
- Rugged data acquisition and storage for mission management or navigational control
- Target tracking and high definition data capture in ground, air and shipboard systems
- Any application requiring high speed, high capacity data record, capture and secure storage

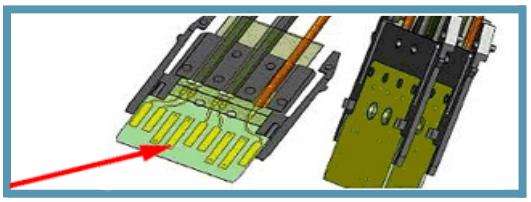
- Load boards convection or conduction cooled
- Storage carrier and controller cards
- Rear Transition Modules for I/O
- Intel & Freescale Single Board Computers
- Blade level networking boards (Ethernet, PCI Express)
- Rackmount, desktop, and ATR chassis platforms
- Ruggedization programs

VPX

VPX Cable Assemblies



Note: When installing rear cable shrouds over the existing EPT Velox RTM connectors, you must replace the front guide pins because the cable shrouds require larger diameter screws to attach them firmly enough to support the weight of cables.
Also: The locking rails which are attached at the four mounting points on each shroud (number 2 above) secure the cable assemblies and provide a smooth surface with slots for ty-wraps. The ty-wraps serve as a strain relief.



Stackable Wafers - one wafer has 4 coax lines (thin pipe).
Four wafers can be stacked to make a fat pipe.

Examples of VPX Cables

For the cable assemblies that fit your system requirements, please contact sales.

Length	Description	Termination
6″	Wafer-to-wafer connection, Even row to Even row ultra thin pipe (1 wafer/side)	wafers
6″	Wafer-to-wafer connection, Odd row to Even row ultra thin pipe (1 wafer/side)	wafers
6″	Wafer-to-wafer connection, Odd row to Odd row ultra thin pipe (1 wafer/side)	wafers
12″	Wafer-to-SMA connection, Even row ultra thin pipe (1 wafer) to 4 SMAs	SMA
12″	Wafer-to-SMA connection, Odd row ultra thin pipe (1 wafer) to 4 SMAs	SMA
72″	Wafer-to-wafer connection, Odd row to Odd row ultra thin pipe (1 wafer/side)	wafers
72″	Wafer-to-wafer connection, Even row to Even row ultra thin pipe (1 wafer/side) 72	wafers
72″	Wafer-to-wafer connection, Odd row to Even row ultra thin pipe (1 wafer/side)	wafers

Please contact our sales for more details.

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