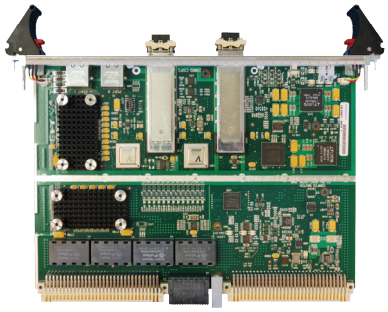
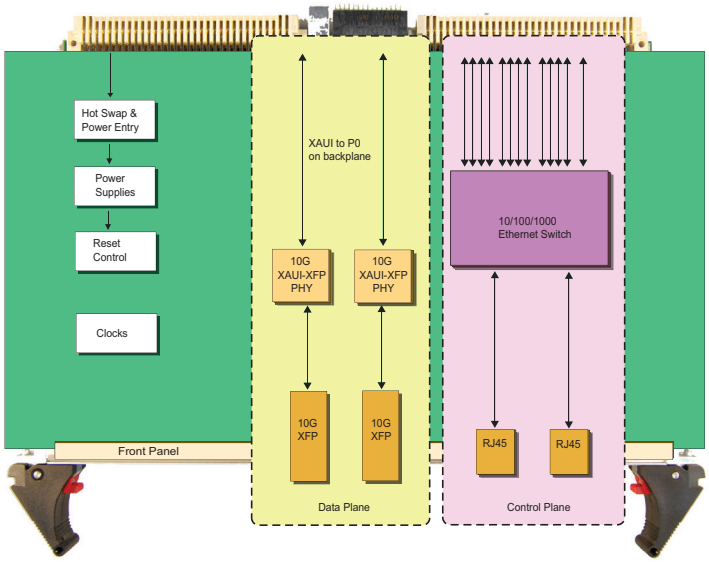
VXS-M2E Switch Module



Ethernet Connectivity

The VXS-M2E Switch Module is designed to provide the FastCluster 3000 SERIES systems with 10 Gbit expandability and Ethernet connectivity via a rugged implementation. Packaged for installation in a standard VXS chassis the new VXS-M2E module integrates a Control Plane (10/100/1000 Ethernet switch) and Data Plane architecture to retain the same network and system management techniques available for other FastCluster 3000 SERIES products. The advanced architecture of the VXS-M2E is used to coordinate and deliver Ethernet compatibility with the speed, reliability, and bi-section bandwidth required by the most demanding real-time applications.

Featuring a switch capable of supporting 10/100/1000Base-T the VXS-M2E provides Ethernet connectivity between six (6) payloads on the VXS backplane and two standard RJ45 connections on the front panel. The switch is optimized for high performance and reduced power dissipation. Additionally, the two high speed (10 Gbit) serial ports on the front panel support either XFP fiber or copper transceivers. This flexibility allows for creating a system configuration that maximizes speed and bandwidth via a fiber optic connection directly to the fabric.



VXS-M2E Switch Module Functional Block Diagram

KEY FEATURES

- 10/100/1000 Ethernet Switch
- Front Panel Support for
  2 x 10G XFP
  2 x Ethernet (RJ45)
- Serial Connections on Front Panel Support Fiber Optic Connection to maximize speed and bandwidth
- VXS (VITA 41.0)
- Complies with IEEE 802.3x providing compatibility with all industry standard Ethernet, Fast Ethernet, and Gigabit Ethernet devices
- Module available in Air-Cooled or Conduction-Cooled Versions

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Specifications

SWITCH TECHNOLOGY	
Ethernet Switch	16 Port 10/100/1000Base-T Switch with two (2) ports to the front panel, 13 ports to the backplane, and one (1) port unused.
Serial Crosspoint Switch	Serial links operating @ 3.125 Gbps NRZ Data Rate
FRONT PANEL	
XFP Transceivers	Two (optional) Plug-in Modules with Myri-10G over Fiber
Copper Transceivers	Two (optional) with Myri-10G over Copper
Ethernet	Two 10/100Base-T Ethernet RJ45 Connector
BACKPLANE	
VXS (VITA 41.x)	Dual-Star Switch Implementation
Configurations*	VXS-M2E is supported in slot 7 of the 7-Slot VXS Ethernet Backplane Overlay (Slots 1-7).

*The VXS-M2E depends on a passive backplane overlay to deliver a solution that is highly reliable, and easy to maintain and upgrade.

ENVIRONMENTAL (Air-cooled)**	
Operating Temperature	0° C to +55° C (inlet air)
Ambient Air Relative Humidity	up to 95% non-condensing
Maximum Altitude***	10,000 ft. (3048 m)
Shock	20 Gs @ 11 ms half sine
Random Vibration	0.04 g^2/Hz, 10 - 2000 Hz
Storage Temperature	-40° C to +85° C

**Future Availability of Conduction Cooled and RoHS compliant versions.
***Ambient Temperature, Airflow and Altitude parameters can be traded off among each other. Consult Factory for more information.

ELECTRICAL (Power Requirements)	
3.3 Volts	0 Watts
5.0 Volts	12 Watts, typical
12 Volts	0 Watts

PHYSICAL DIMENSIONS	
Packaging Standard	6U Eurocard Form Factor
Height	9.2 inches (233.4 mm)
Depth	6.3 inches (160.0 mm)
Width	0.8 inches (19.8 mm)
Slot Pitch	0.8"
Weight	~1.2 lbs. (weight may vary depending on configuration)

PART NUMBERS	
101005-01	VXS-M2E Switch. Air-Cooled 6U VXS Switch Module supporting two XFP transceivers providing 10 Gigabit Ethernet connectivity and 2 RJ45 Ethernet ports on the front panel. Usage requires a VXS-M16 Switch Module.
101006-02	VXS Backplane and Ethernet Overlay - 7 Slots. 8 Slot VXS Backplane and 7 Slot P2 Backplane Overlay providing connectivity between one VXS-M2E Ethernet Switch Module and up to six VXS 3000 SERIES Payloads; Supports up to two Ethernet ports per payload.
101007-01	VXS-M2E OEM Kit. Designed to support the VXS-M2E product, the kit includes 8-Slot VXS Backplane, 7 Slot P2 Backplane Overlay (101006-01), and documentation to support integration of these components in a 3000 SERIES chassis.

The information contained herein is subject to change without prior notice. For the latest detailed information contact your representative at +1 (978) 663-7598 or visit www.cspi.com.

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