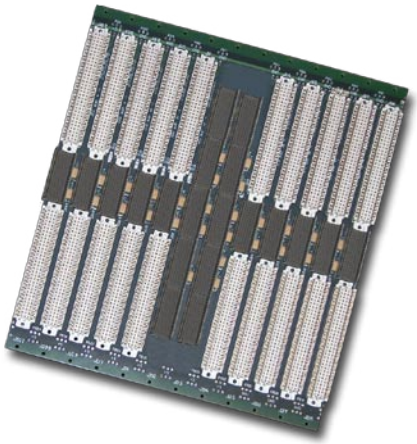
VITA 41.x VXS Switch Fabric

Backplane

ELECTRONIC PACKAGING DIVISION



- 12 slot VITA 41.0 VXS backplane
- 10 VME64x payload slots
- Two fabric switch slots
- Dual star configuration
- Inter-switch links
- SMT passive termination
- Decoupling capacitors
- Passive ABG option

Carlo Gavazzi's line of VXS Switch Fabric backplanes are designed to the latest VITA standards.

VITA 41.0 is the base specification for VME Switched Serial (VXS), which defines the physical, mechanical, and power requirements. The base specification is structured to accommodate different serial fabric technologies, including VITA 41.1 Infiniband, VITA 41.2 Serial RapidI/O, VITA 41.3 Gigabit Ethernet, VITA 41.4 PCI Express, and VITA 41.5 StarFabric.

Carlo Gavazzi's VITA 41.x VXS backplane is designed for high-speed switch fabrics while maintaining J1 and J2 connections to support legacy VME64x cards. The VXS backplane replaces the 95 pin J0 connector of VME64x with a MultiGig RT-2 high frequency connector for serial data traffic. This 12 slot VXS backplane is set up in a dual star configuration with two fabric switch slots and I0 VME64x payload slots. Each payload slot supports two 4x serial links. One serial link is wired to the first switch slot and the other serial link is wired to the second switch slot. The two switch slots are designed with Inter-Switch links.

Versatile. Reliable. Carlo Gavazzi's VITA 41.x VXS Switch Fabric backplanes are designed to meet the needs of embedded, telecommunications, development, testing, military, and measurement applications.

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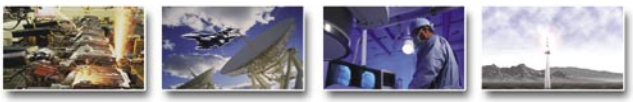
innovative engineering, dependable products

Carlo Gavazzi Computing Solutions designs and manufactures standard and custom AdvancedTCA™, CompactPCI®, PCI/ISA, and Switch Fabric backplanes, cabinets, enclosures, I/O boards, and integrated systems that address your outsourcing and time-to-market needs.



CARLO GAVAZZI COMPUTING SOLUTIONS

Electronic Packaging

Fabric & Connectivity

Embedded Computing

Fulfillment

CARLO GAVAZZI

VITA 41.x VXS Switch Fabric

Backplane

ELECTRONIC PACKAGING DIVISION

SPECIFICATIONS

Physical

- Height:
  6U, 10.317" + 0/-.012
  (262,05mm + 0/-0,3mm)
  7U, 12,000" + 0/-.012
  (304.8mm + 0/-0,3mm)
- Length: 12 slots, 9.585" +0/-.012"
  (243,5mm + 0/-0,3mm)
- Backplane Material: FR408

Environmental

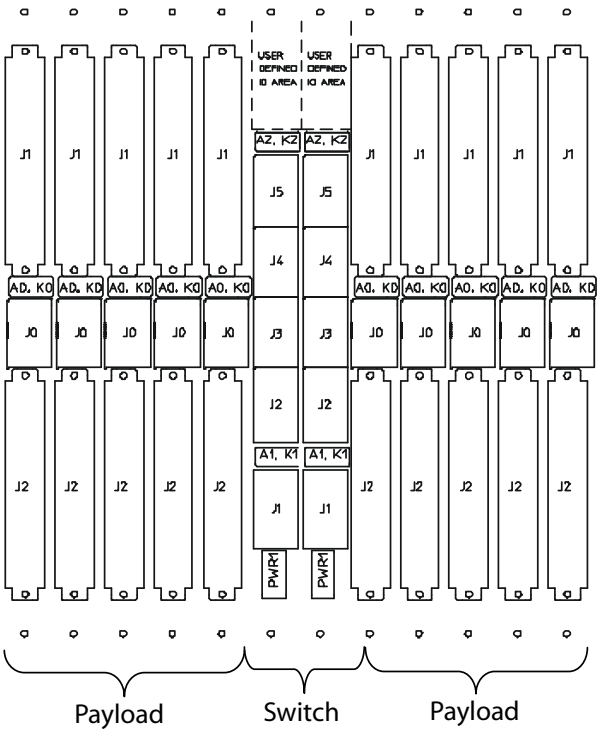
- Termperature Ranges:
  Operation: -40°C to 85°C
  Storage: -40°C to 85°C
- Flammability Rating: UL94-V0
- Shock and Vibration: Designed to meet industrial specifications
- Regulatory: Designed to meet UL, CSA, CE requirements

Electrical

- VITA 1-2002 VME64 standard
- VITA 1.1-1997 VME64X standard
- VITA 41.0 VXS standard
- 100% Level III Testing
- Backplane Connectors:
  - IEC 61076-4-113, 5 Row DIN style backplane connectors (J1 & J2):
    - Working current: 2A/pin (VME64x power pins)
    - Contact resistance: < 15m ohms
    - Insulation resistance: > 1012 ohms
    - Temperature range: -65°C to 125°C
    - Molded housing: liquid crystal polymer
    - Contacts: Copper alloy
    - Contact surface:
      - Contact zone: selectively gold-plated
      - Termination zone: Tin-plated
      - Press-in zone: Nickel-plate
  - Fabric Connectors (Payload Slots J0):
    - Type RT2 high frequency connector
    - Molded housing: liquid crystal polymer UL94-V0
    - Contacts: Phosphor Bronze
    - Contact surface:
      - Contact zone: selectively gold-plated over nickel
      - Termination zone: Tin-plated

Mechanical

- IEEE 1101.11
- IEEE 1101.10
- 6U and 7U



ORDERING INFORMATION

Call for pricing and availability. *Custom versions quoted.*

Ordering Guide: VITA® 41.x VXS Switch Fabric Backplane*

Description	Part Number
12-Slot VITA 41.x VXS Switch Fabric Backplane: • Two Fabric slots • 10 VME64x payload slots • Dual star configuration • Inter-Switch links	9292727-01
Notes:* Check with Carlo Gavazzi's factory for single star, mesh, and custom configurations of payload and switch slots.	

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