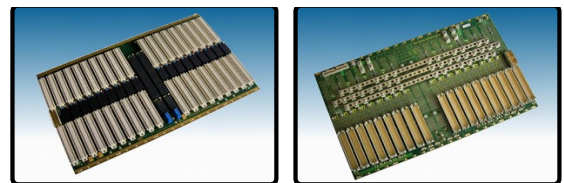


# Backplane VXS

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Backplane VXS



**VXS (VME Switched Serial) represents an extension of the VME family according to VITA 41.0. This system is downward-compatible to VME and VME64x, so that assemblies with VME 96-pin or 160-pin DIN connectors can still be used, while adopting the use of serial signals such as Gigabit Ethernet, PCI Express, Serial Rapid I/O, and other fabrics.**

VXS uses a straightforward Star or Dual Star centralized architecture with defined pin outs for interoperability. VXS uses the MultiGig RT 2 connector for P0 connector.

Transmission speed for VXS is 2.5 GByte for each pair of cards. Following a dual star topology the 21 slot VXS backplane design is based on a HIGH-SPEED DESIGN concept.

Low reflection is achieved by means of uniform signal surge impedance. Shielding of each individual signal line assures minimal coupling, even when expanded to the 64-bit mode with the 2eSST protocol (320 Mbytes/s).

## Main features

- monolithic 21 slot HARTMANN ELEKTRONIK VXS bus,
- Dual star topology with 2 switch slots, 18 Payload slots and one legacy VME64x slot (slot 1),
- Multilayer design optimized for best HF behavior, outer layers used as shielding planes

- Automatic daisy chain (mechanically or electronic)
- Excellent power distribution capability by current rails
- Monolithic 21 slot HARTMANN ELEKTRONIK VXS bus, 10 layers
- Dual star topology with 2 switch slots, 18 Payload slots and one legacy VME64x slot (slot 1), all Payload slots outfitted with 5-row VME64x J1/J2 as per IEC 61076-4-113 and MultiGig RT2 VXS J0 connectors
- Every switch is connected to every VXS connector
- HIGH SPEED Transmission VME: 40 MByte/s to 320Mbyte/s, VXS: 2.5GByte/s for every slot in the same time
- Two switch slots located in the middle of the backplane to minimize time differences in high speed lines, maximum. of 1n8 ns Skew
- TERMINATION: active or passive 3,3V or passive 5V
- Daisy-Chain: Automatic Daisy Chain according to the Wiener Patent with CBLT
- Utility Connector: 40 pole Latch
- Protocol: VITA 41.1 Infiniband or VITA 41.2 Rapid I-O, difference is the coding key
- Flat cable style connector for sense and control
- Provision for up to 8 temperature sensors (module temp. checking)
- Sense circuit protection by PTC- resistors (Optionally)
- Excellent power distribution capability by current rails
- Maximum power Capabilities

Item	Bus	Size	Connectors	Slots	Termination	Daisy Chain
0BB0.000V1	VXS	6U	J1/J0/J2	21	active	Electronic, CBLT

**Other configuration on request!**

## VXS Backplane

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### Product Data Sheet

Backplane VXS: [Print Product Data Sheet](#)

### Documentation

Manual:

Introduction: [WIENER VME VXI VXS introduction](#)

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