Reducing Footprint and Simplifying Integration for High Energy Physics

- Small-footprint low-cost chassis for acquisition and data processing -
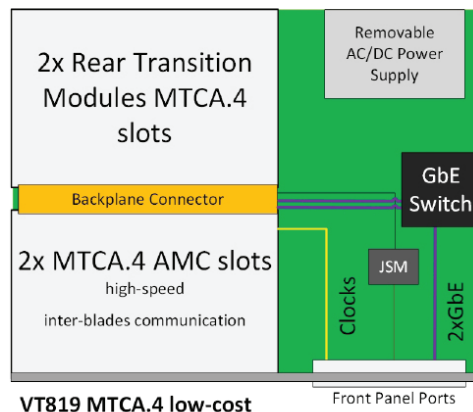
Reducing footprint

VadaTech released VT816, VT817 and VT819, a series of three compact 1U chassis compatible with MTCA.4 standard (providing Rear Transition Modules (μRTM) as well as timing and synchronization support mostly used in industry and science applications).

Low-cost integration in VT819 MTCA.4 1U chassis

VT819 includes the GbE switch with front panel expansion for the transfer of control and low-speed processed data to the network. The two slots in the chassis are directly connected via 16 high speed lane on the midplane for inter-FPGA high speed protocol.

Further higher -speed expansion can be performed via the boards installed in the chassis. The chassis doesn't include the PCIe Gen3 switch and expansion, reducing the cost and giving complete flexibility in communication protocol choice.
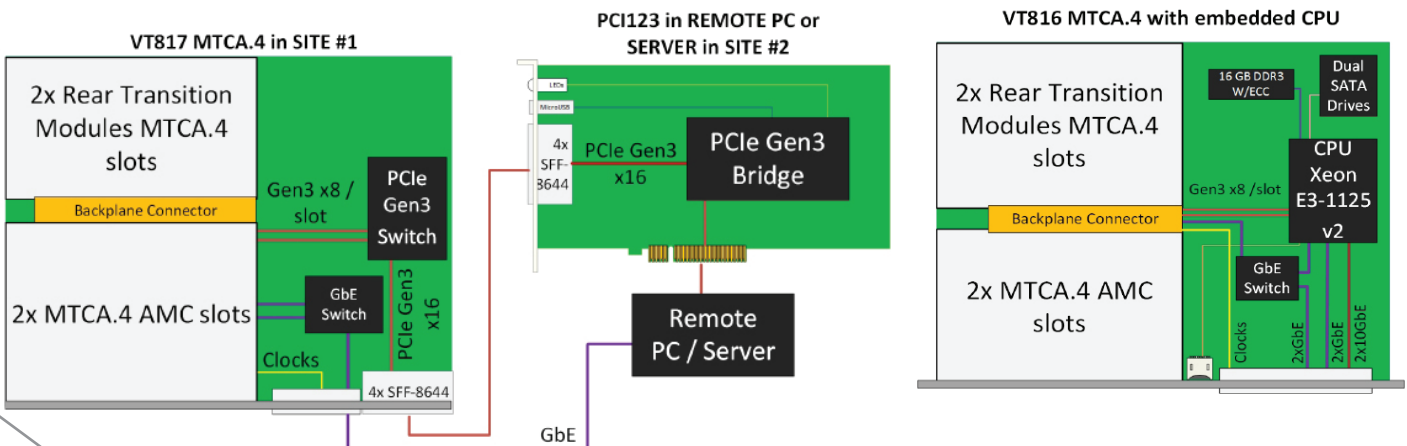

VT819 MTCA.4 low-cost

Main Features

- Compact 1U, 19", 14.2" (360 mm)
- Cost optimization by providing the most flexible computing architecture
- MTCA.4 open-standard
- Up to two double-width 4HP mid-height slots (front and rear modules)
- Also useable as single double-width 8HP double-height slot (front and rear modules)
- Embedded removable power supply
- High-speed inter-blade communication
- Networking, control and computing data expansions
- System status via management controller

Advanced Configuration : Remote PC with VT817 or Embedded CPU with VT816

VT817 allows high-speed data transfer to external CPU in PC/Server (root complex) via PCIe Gen3 x16 expansion.
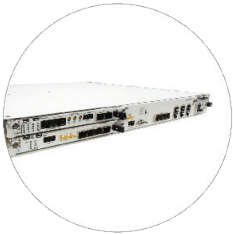VT816 with embedded Intel® CPU allows complete acquisition/processing/post-processing/control/display.

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VT819 1U MCA.4 chassis with 2 AMC slots, Economic Click here to access VT819 datasheet.

VT817 1U MCA.4 chassis with 2 AMC slots, PCIe Gen3 expansion Click here to access VT817 datasheet.

VT816 1U MCA.4 chassis with 2 AMC slots, Embedded CPU, PCIe Gen3
Click here to access VT816 datasheet.

PCI123 Module for PCIe Gen3 Bus Expansion
Click here to access PCI123 datasheet.

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