6U ATCA SlotSaver Chassis with Dual Switching Shelf Managers - VT830

6U ATCA SlotSaver

Advanced*TCA*® **40G**

KEY FEATURES

- 19" rackmount 6U ATCA Chassis with integrated Switch and Shelf Manager:
  - -10GbE/GbE Managed Layer 2
  - -40GbE/10GbE/GbE Managed Layer 3
- Conforms to PICMG 3.0 specification Rev.3.0
- 40G or 10G ATCA 6-slot backplane with Dual Star base and fabric (Full Mesh optional)
- Full redundancy for all FRUs
- Split power distribution (odd slots on A1/B1, even slots on A2/B2)
- Superior cooling to 375W
  - Redundant push/pull cooling with right-to-left airflow
- Redundant Power supplies AC (DC or AC/DC optional):
  - Up to four AC supply at 1100W/each (N+1)
- Telco Alarm with Micro DB15 interface
- 6 Rear Transition Module (RTM) slots

Benefits of Choosing VadaTech

- Unprecedented performance density in a 6U horizontal shelf
- Densest Switching Shelf Manager (SSM) with full status LEDs, 8x 10GbE SFP+, 2 GbE ports, 2 RS-232 de-bug ports, and a Telco alarm
- Superior push-pull cooling to 375W
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

The VT830 features dual Switching Shelf Managers (SSMs) that combines VadaTech's 3rd Generation Shelf Manager with integrated GbE/10GbE/40GbE switches on the same module. This allows two slots in the system to be used as Nodes (Payload Boards) versus having the slots otherwise be allocated as dedicated switching Hubs in the system.

The 6U 6-slot SlotSaver ATCA Chassis conforms to the latest PICMG 3.0 specification in 10G or 40G configurations. The Shelf has a 19" rackmount form factor compliant to EIA-310. The VT830 Shelf offers 10GbE/1GbE Layer 2 managed switches or 40GbE/10GbE/1GbE Layer 3 managed switches. The Switching Shelf Managers have RTM capabilities for rear I/O.

The AC input of the Shelf provides N+1 redundancy, with options for DC or AC/DC combined configurations. The 6U ATCA Shelf offers exceptional thermal management with each slot dissipating up to 375W in a redundant push/pull configuration. The fan trays and air filters are all separately removable.

VadaTech can modify this product to meet special customer requirements. Contact us to discuss your application.

Power Supply

The VT830 shelf uses up to 4x swappable 1100W AC power supplies or 2x 90 Amp DC Power Entry Modules. The input voltage is from 100-240V AC or -36 to – 72V DC.

Cooling and Temperature Sensors

The SlotSaver chassis has dual intelligent cooling units in a push-pull configuration (right-to-left). The redundancy allows fail-safe operation in case one of the cooling units becomes non-operational. There are a total of 6 temperature sensors in the chassis that monitor the airflow and temperature throughout the shelf.

Shelf Input/Output

RTM (Rear Transition Module) are available per slot including the Switch/Shelf Manager slots.

Switching Shelf Manager (SMM)

By combining the switch and shelf manager functions, two extra payload slots are available in the chassis. The SMM offers:

- Layer 2 GbE/10GbE
- Layer 3 GbE/10GbE/40GbE
- Use as protocol analyzer to monitor, inject, capture, and validate I2C traffic on the IPMB
- GUI to validate and display the IPMI packets or schedule messages for injection into the shelf
- Fully hot-swappable to minimize service down time
- VadaTech Scorpionware™ Software

Scorpionware™ Software

VadaTech's Scorpionware software can be used to access information about the current state of the Shelf or the Carrier, obtain information such as the FRU population, or monitor alarms, power management, current sensor values, and the overall health of the Shelf. The software GUI is very powerful, providing a Virtual Carrier and FRU construct for a simple, effective interface.

Integration Services and Application-Ready Platforms

VadaTech has a full ecosystem of ATCA and μTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTM), Power Modules, and more. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

SPECIFICATIONS

Architecture		
Physical	Dimensions	Height 6U
		Width: 19"
		Depth 13" (handles protrude and additional 2" out the front of the shelf)
Type	ATCA Shelf	6 slot ATCA payload
Standards		
ATCA	Type	PICMG 3.0 Rev. 3.0
Configuration		
Environmental	Temperature	Operating Temperature: 0° to 55° C
		Storage Temperature: -40° to +70° C
	Relative Humidity	5 to 95 per cent, non-condensing
Conformal Coating		Humiseal 1A33 Polyurethane (optional)
		Humiseal 1B31 Acrylic (optional)
Other		
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Compliance	PICMG 3.0 Rev 3.0, RoHS 2. Designed to meet NEBS Level 3	
Standards	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards	
Warranty	One (1) year limited warranty	
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REAR VIEW

Rear photo not available

ORDERING OPTIONS

VT830 - AB0 - 000 - 00J*

A = Power Supply
1 = AC x1 (single, total of 1100W)
2 = AC x2 (dual, total of 2200W)
3 = AC x3 (triple, total of 3300W)
4 = AC x4 (quad, total of 4400W)
5 = Dual PEM -36VDC to -72VDC
6 = Custom

B = Backplane
1 = Dual Star (10GB)
2 = Dual Star (40GB)

J = Conformal Coating
0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

*The VT830 Shelf MUST be ordered with Dual Switching Shelf Managers. You can choose either the VT030 (10GbE/GbE) or the VT031 (40GbE/10GbE/GbE) versions. Please consult the corresponding data sheet for ordering options.

RELATED PRODUCTS

VT030 Switching Shelf Manager

ATC807 26-Port 10 GbE Switch Blade

VT000 Power Board for Bench-Top Dev

CONTACT US