



1U Chassis with 6 AMCs, Quad SPF+, Full Redundancy - VT840



KEY FEATURES

- Six single module, mid-size AMC slots per 1U carrier (or two double module and two single module, mid-size AMC slots)
- Management can run as Shelf Manager or MCMC (MicroTCA Management Controller)
- Fully redundant power with failover (non-redundant is optional)
- x8 PCle Gen 3 on ports 4 to 11
- GbE Managed Layer 2 (ports 0 and 1)
- Quad SFP+ for 10 GbE via PCle to 10 GbE network interface
- Quad SAS via PCle to SAS HBA
- Digital input/output per system

Benefits of Choosing VadaTech

- Option for full redundancy with two sets of three slots each with own MCH, fabric/base, power, and clocking
- Integrated fans/power modules in rear of chassis to save space
- High performance combination of Quad SAS, Quad SPF+ for 10 GbE, and Layer 2 GbE
- 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 VT840 is a 1U μ TCA chassis that provides six mid-size AMC slots with swappable redundant power in the rear of the chassis. The six slots are divided among two sets of three slots, each set with their own dedicated PCle Fabric, GbE, Power Module, clock structure, and management. The fabric on ports 4-11 is PCle (AMC.1) and ports 2-3 are routed to adjacent slots (AMC.3). Other features include FCLK to each AMC, a single digital input/output pin per unit (two total on the front panel), and front to rear cooling. The 300W AC power/fan trays and air filters are removable for ease of serviceability.

The VT840 runs management software based on VadaTech's proven VT002 second generation mezzanine. The shelf manager implements IPMI management, FRU management, and shelf environment management for power, thermal, E-keying, etc. The VT840 has integrated dual 10GbE network interface for each set of three slots, which connect to the PCIe fabric via x8 PCIe Gen3.

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

1U Chassis with 6 AMCs, Quad SPF+, Full Redundancy – VT840

Power Supply

The VT840 has dual input power 100-240 V AC with a frequency from 47-63 Hz. The redundant swappable power/fan trays are located in the rear of the chassis to save space. If the failover option is not desired, the chassis can be configured so that each PSU can power a 3-slot segment.

Scorpionware[™] Software

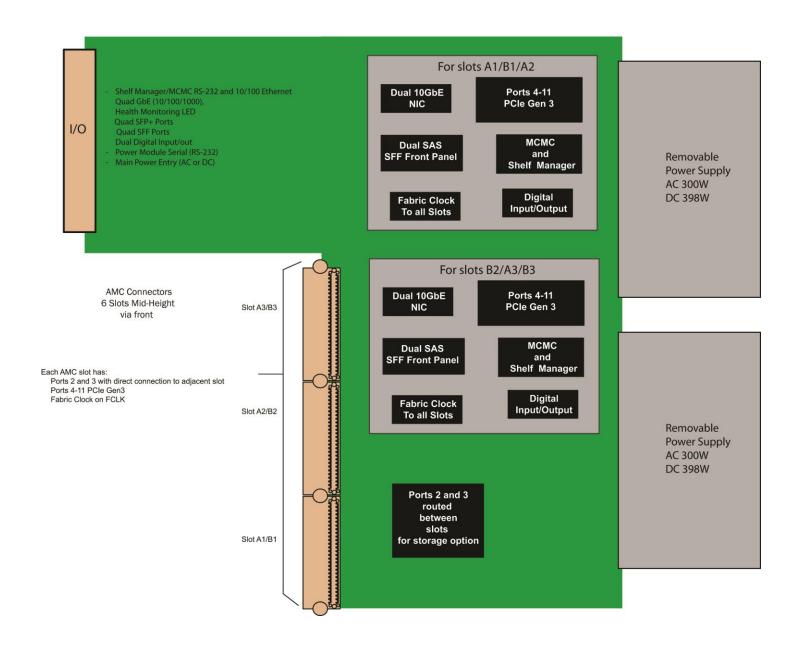
VadaTech's Scorpionware software can be used to access information about the current state of the Shelf or the Carrier, obtain information such as the FRU population, or monitor alarms, power management, current sensor values, and the overall health of the Shelf. The software GUI is very powerful, providing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



BLOCK DIAGRAM



CHASSIS CONFIGURATION

	Front Panel Ports	AMC B3	AMC B2	AMC B1	
		AMC A3	AMC A2	AMC A1	

Front View



SPECIFICATIONS

Architecture				
Physical	Dimensions	Height 1U		
		Width 19"		
		Depth 18.5"		
Туре	μTCA Chassis	6 AMC Slots		
Standards				
AMC	Type	AMC.1, AMC.2, and AMC.3		
μTCA Type		MicroTCA.0		
Configuration				
Power	VT840	300W Universal AC or 398W DC (-36V to -75V) @ 400 Hz		
Environmental	Temperature	Operating Temperature: 0°C to 65° C (Commercial version)		
		Storage Temperature: –40° to +70° C		
	Altitude	10,000 ft operating		
		40,000 ft non-operating		
	Relative Humidity	5 to 95 percent, non-condensing		
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)		
		Humiseal 1B31 Acrylic (Optional)		
Other				
MTFB	MIL Hand book 217-F	MIL Hand book 217-F @ TBD Hrs		
Certifications	Designed to meet FCC	Designed to meet FCC, CE and UL certifications where applicable		
Standards	VadaTech is certified to	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards		
Warranty	Two (2) years			
Trademarks and Disclaimer	,			



Rear View



ORDERING OPTIONS

VT840 - AB0 - 000 - 0HJ

A = Power Supplies

0 = 300W AC

1 = 398W DC

B = Power Failover

0 = Redundant PSUs with failover

1 = Independent power to each 3-slot segment (no failover)

H = Temperature Range

1 = Commercial

2 = Industrial

J = Conformal Coating

0 = None

1 = Humiseal 1A33 Polyurethane

2 = Humiseal 1B31 Acrylic

RELATED PRODUCTS







AMC620 SATA Storage **Board**

AMC720 Intel-based **Processor AMC**

AMC515 Virtex-7 FPGA Carrier

CONTACT US

VadaTech Corporate Office

198 N. Gibson Rd. Henderson, NV 89014 Email: info@vadatech.com

Telephone: +1 702 896-3337 Fax: +1 702 896-0332

Asia Pacific Sales Office

7 Floor, No. 2, Wenhu Street, Neihu District, Taipei 114, Taiwan

Email: info@vadatech.com Telephone: +886-2-2627-7655 Fax: +886-2-2627-7792

VadaTech European Sales Office

Ocean Village Innovation Centre, Ocean Way, Ocean Village, Southampton, SO14 3JZ Email: info@vadatech.com

Telephone: +44 2380 381982 Fax: +44 2380 381983