

# VT003

## ATCA Shelf Manager, 3<sup>rd</sup> Generation



VT003

### Key Features

- Quad Core ARM Freescale processor @ 1 GHz per core
- Two GB DDR3 memory
- FRAM for log messages
- 32 GB of Flash
- 8 GB of NAND Flash
- Form, fit functional to VadaTech VT001 and VT002
- Dual 10/100 Ethernet ports
- I2C Real Time Clock with battery backup

### Benefits

- 3<sup>rd</sup> Generation shelf manager in mezzanine format allows use in multiple form factors
- Backwards compatibility to 1<sup>st</sup> Gen (VT001) and 2<sup>nd</sup> Gen (VT002) shelf managers
- Compact size with low (3W) power consumption
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

**AdvancedTCA<sup>®</sup>**



**vadatech**  
THE POWER OF VISION



# VT003

The VT003 incorporates the Intelligent Platform Management Interface (IPMI v2.0) and the PICMG 3.x specification for mezzanine modules. It is VadaTech's 3<sup>rd</sup> generation shelf manager product and provides a complete hardware and software solution in the size of a credit card using less than 3W.

The VT003 can be deployed on any custom management carriers for the rapid development of dedicated Shelf Managers on an ATCA module. This allows the ATCA module to replace a dedicated Shelf Manager, thereby reducing overall system cost.

## 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.



Figure 1: VT003

# Specifications

Architecture	
<b>Physical</b>	<b>Dimensions</b> Width: 2.125" (54 mm) Depth 3.375" (85.7 mm)
<b>Type</b>	<b>Shelf Manager</b> Mezzanine module to mount to a management carrier or an ATCA module
Standards	
<b>Module Management</b>	<b>IPMI</b> IPMI v2.0 and PICMG 3.0
Configuration	
<b>Power</b>	<b>VT003</b> 3W
<b>Environmental</b>	<b>Temperature</b> See <a href="#">Ordering Options</a> Storage Temperature: -40° to +90°C
	<b>Vibration</b> Operating 9.8 m/s <sup>2</sup> (1G), 5 to 500 Hz on each axis
	<b>Shock</b> Operating 30G each axis
	<b>Relative Humidity</b> 5 to 95% non-condensing
<b>Others</b>	<b>Mechanical</b> Tyco/Samtec 120 pin
Other	
<b>MTBF</b>	MIL Hand book 217-F@ TBD hrs
<b>Certifications</b>	Designed to meet FCC, CE and UL certifications, where applicable
<b>Standards</b>	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards
<b>Warranty</b>	Two (2) years, see <a href="#">VadaTech Terms and Conditions</a>

## INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), 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.

# Ordering Options

VT003 – 0B0-000-0HJ

<b>B = SPI/Modem Option</b>		<b>H = Temperature Range</b>
0 = SPI Interface 1 = Modem Interface		1 = Commercial (Operating Temperature 0° to 65°C) 2 = Industrial
		<b>J = Conformal Coating</b>
		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

## Related Products

ATC133



- 10G ATCA Carrier
- Managed Layer 2 software
- Four full-size AMC slots

VT000



- Allows connection to shelf managers (such as VadaTech's bench-top style VT007)
- Powers a single ATCA module
- IPMI hardware address and parity

VT830



- 19" rackmount 6U ATCA Chassis with integrated Switch and Shelf Manager
- 10GbE/GbE Managed Layer 2
- 40GbE/10GbE/GbE Managed Layer 3

# Contact

## VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014

Phone: +1 702 896-3337 | Fax: +1 702 896-0332

## Asia Pacific Sales Office

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

Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

## VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton, SO40 9LR

Phone: +44 2380 016403

[info@vadatech.com](mailto:info@vadatech.com) | [www.vadatech.com](http://www.vadatech.com)

# Choose VadaTech

## We are technology leaders

- First-to-market silicon
- Constant innovation
- Open systems expertise

## We commit to our customers

- Partnerships power innovation
- Collaborative approach
- Mutual success

## We deliver complexity

- Complete signal chain
- System management
- Configurable solutions

## We manufacture in-house

- Agile production
- Accelerated deployment
- AS9100 accredited



**vadatech**  
THE POWER OF VISION

## Trademarks and Disclaimer

The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

© 2019 VadaTech Incorporated. All rights reserved.  
DOC NO. 4FM737-12 REV 01 | VERSION 2.3- JUL/21