VT053

4th Generation

ATCA Shelf Manager

VT053

Key Features

- Compliant to PICMG 3.0 base specifications
- 10/100 out-of-band, and RS-232 de-bug ports via RJ-45
- Software for Sensor Data Record, event logs, FRU inventory monitoring temp and power, e-keying, alarms and more
- Telco alarm with Micro DB15 connector front panel interface
- Active/standby redundancy when utilizing two VT053 in a system

Benefits

- Incorporates VadaTech's 4th generation shelf manager with HTTP, SNMP, HPI, RMCP, CLI and other software features
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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VT053

The VT053 AdvancedTCA 4th Generation Shelf Manager is designed for use with VadaTech VT831 or VT832 ATCA Chassis.

Full redundancy and failover the Shelf Manager side can be achieved by using two VT053's in the system.

The VT053 can run as a protocol analyzer to monitor, inject, capture and validate I2C traffic on the Intelligent Platform Management Bus (IPMB). A Graphical User Interface (GUI) validates and displays the IPMB messages for injection into the shelf.

The VT053 is fully hot-swappable to minimize service downtime.
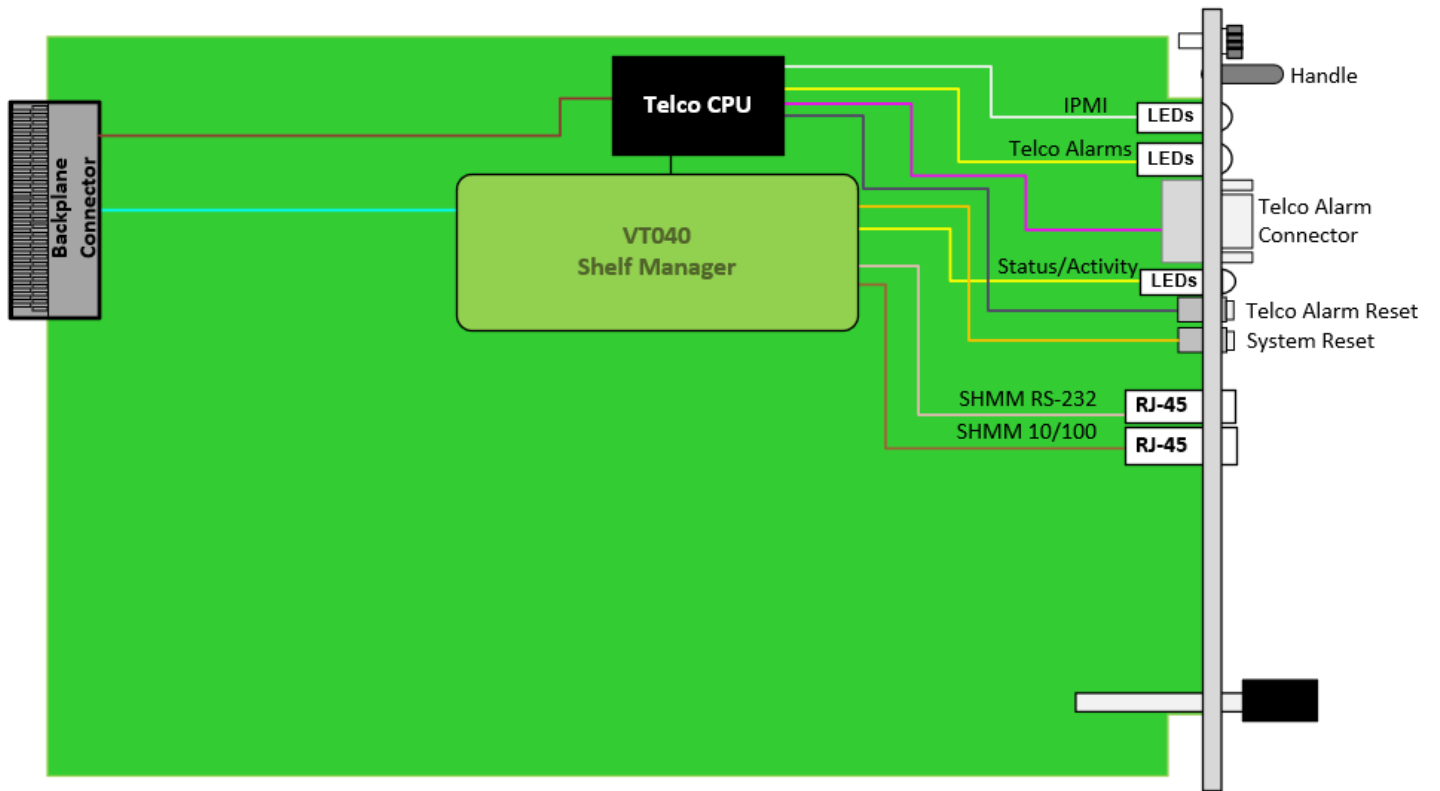
Figure 1: VT053

Block Diagram

Figure 2: VT053 Functional Block Diagram

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.

IPMI Protocol Analyzer

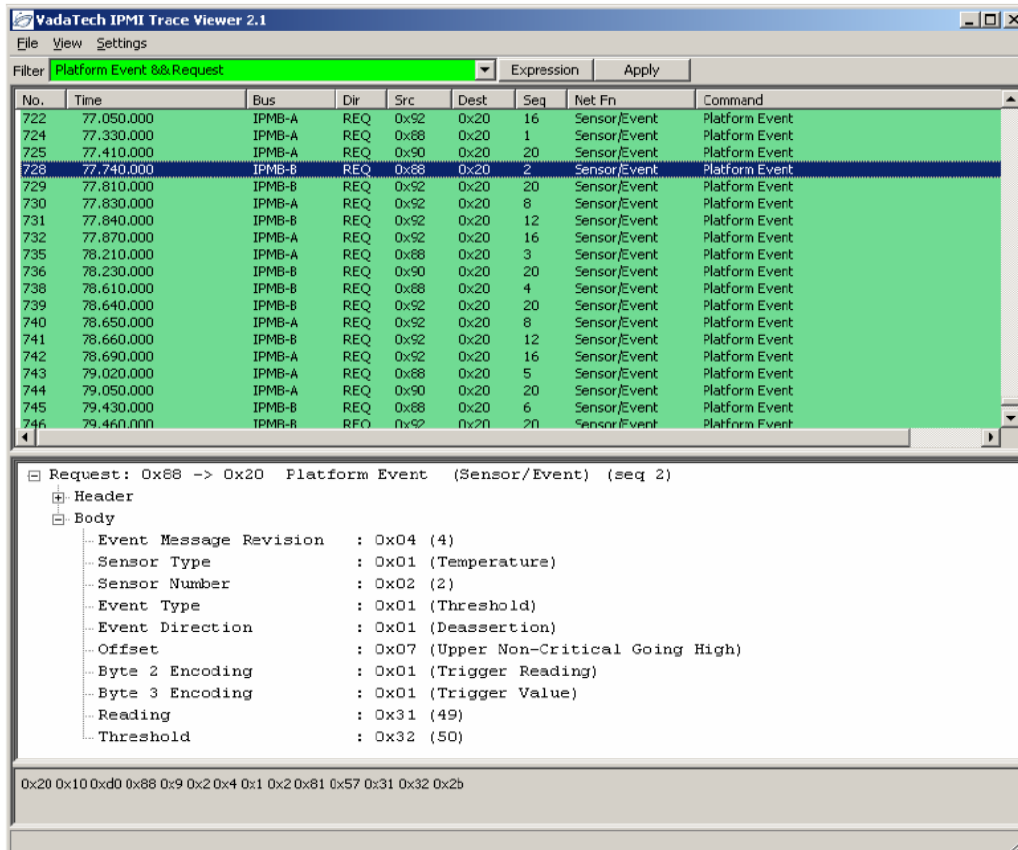VT053 can be used as an IPMI protocol analyzer, Figure .

Figure 3: IPMI Protocol Analyzer Trace Viewer Output

Specifications

Architecture		
Physical	**Dimensions**	Width: 5.685" (144 mm)
		Depth 11.096" (281 mm)
Type	**Shelf Manager**	VadaTech ATCA Shelf Manager
Standards		
Module Management	**IPMI**	IPMI v2.0 and PICMG 3.0
Configuration		
Power	**VT053**	3W
Environmental	**Temperature**	See Ordering Options
		Storage Temperature: –40° to +90°C
	Vibration	Operating 9.8 m/s^2 (1G), 5 to 500 Hz on each axis
	Shock	Operating 30G each axis
	Relative Humidity	5 to 95% non-condensing
Front Panel	**Interface Connectors**	Micro DB15 connector for Telco Alarm
		RJ-45 for RS-232 port
		Single 10/100 out of band port support to the shelf manager
	LEDs	IPMI management control
		Activity/Link user LEDs
	Mechanical	Hot-swap ejector handle
		Cap-screw
	Push Button	Alarm reset and system reset
Software Support	**Operating System**	Linux (consult factory for VxWorks, Windows, or other options)
Other		
MTBF		MIL Hand book 217-F@ TBD hrs
Certifications		Designed to meet FCC, CE and UL certifications, where applicable
Standards		VadaTech is certified to both the ISO9001:2015 and AS9100D standards
Warranty		Two (2) years, see VadaTech Terms and Conditions

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

VT053-000-000-0HJ

		H = Temperature Range
		0 = Commercial (Operating Temperature -5° to 65°C) 1 = Industrial
		J = Conformal Coating
		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Related Products

VT011

- Shelf manager for AdvancedTCA systems
- Utilizing Gen 3 Shelf Manager VT003
- Option to plug into ATC139 ATCA Carrier

VT030

- 10GbE Switching Shelf Manager, eliminates need for separate switch slots
- Compliant to PICMG 3.0 base specs
- Compliant to PICMG 3.1 fabric specs

VT031

- Switching Shelf Manager (SSM) – 40G
- Compliant to PICMG 3.0 base specs
- Compliant to PICMG 3.1 fabric specs

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, Wenhu 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 | www.vadatech.com

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