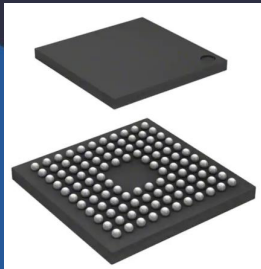# VT025

ATCA/AMC/VPX IPMI Controller, 2nd Generation

Key Features

- Complete ATCA/AMC/VPX IPMI compliant reference design with software
- H8S Renesas Processor R4F2153
- 512K of Flash with 40K of SRAM
- Integrated Flash/SRAM, WDT, A/D, Quad I2C Master/Slave I2C, dual RS-232
- Payload communication via I2C
- Used on all VadaTech ATCA/AMC/VPX products
- 10x10 mm in BGA Package

Benefits

- 2nd Generation IPMI Controller
- Compact size with low power consumption
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

VT025

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VT025

The VT025 is a reference schematic which provides a complete hardware and software solution that occupies only a 15mm x 15mm space on the ATCA/AMC/VPX module and dissipates less than 0.2 watts. The CPU is based on Renesas H8S processor (R4F2153, packaged in a 10mm x 10mm, in BGA package) with integrated flash, quad I2C, dual RS-232, WDT, RTC, 10-bit A/D, etc.

The VT025 provides the quickest way to design for the ATCA/AMC/VPX form factor without prior IPMI knowledge. The VT025 firmware is field upgradeable and configurable via the I2C bus.

In most cases the VT025 can provide all the necessary ATCA/AMC/VPX IPMI functionality without modification. If support is required, VadaTech will provide support at minimal charge. For customers wishing to customize the binary, the VT025 development kit is all that is needed to add enhancements. The development tools are based on the GCC tool chain.

The VT025 is the most cost-effective solution in the market. The R4F2153 can be purchased from VadaTech pre-programed.
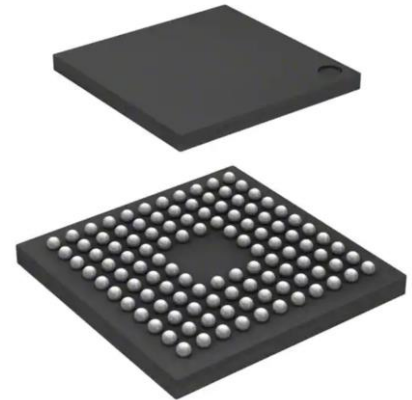
An NDA is required to obtain the reference schematic.

Figure 1: VT025

Specifications

Architecture		
Physical	**Dimensions**	Width: 10mm
		Length: 10mm
Type	**AMC IPMI**	Installed directly on the AMC module
Standards		
Module Management	**IPMI**	IPMI v2.0 and PICMG 3.0
Configuration		
Power	**VT025**	~200 mW
Environmental	**Temperature**	See Ordering Options
		Storage Temperature: –55° to +125°C; Operating -40° to +85°C
	Vibration	
	Shock	
	Relative Humidity	
Others	**Mechanical**	
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 ISO9001:2000 and AS9100B:2004 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.
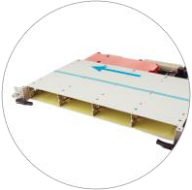
Ordering Options

VT025 – A00-D00-000-XX

A = Programmed Part Architecture	D = Ball Characteristic	
0 = Default Generic Program for AMC Architecture 1 = Default Generic Program for ATCA Architecture 2 = Default Generic Program for VPX Architecture 3 = Reserved 4 = Reserved	0 = RoHS 1 = Sn-Pb (Lead-based Tin-lead)	
		-XX (special capture)

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

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