

VPX015

Third Generation IPMI MMC Controller For VPX 3U and 6U Modules

VPX015

Key Features

- Based on ARM 32-bit Cortex-M33 CPU (160MHz)
- On board 4MB of Flash with 2.5MB of integrated SRAM
- CPU Package size 13x13mm BGA
- Meets all requirements per VITA 46.11 standard
- Evaluation board for the MMC in VPX form factor
- Available tools for creating the FRU/SDR/Detailed HW description
- Controller can manage an RTM (Rear Transition Module) as well as up to two FMC and XMC modules
- Utilized on both the VPX 3U as well as 6U modules
- Controller uses less than ~0.3W when operating
- Minimized hardware, footprint size, and power utilization.

Benefits

- Expertise of VadaTech IPMI controllers
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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VPX015

The VPX015 is an evaluation board for VadaTech third generation IPMI controller. It meets all of the requirements of the VITA 46.11 as laid out in the industry standards from VITA keeping with the long history of VadaTech's Gen1/Gen2 IPMI controllers. The controller can manage a Rear Transition Module (RTM) as well as dual FMC or dual XMC module.

The VPX015 is suitable for prototyping and evaluation of VadaTech IPMI MMC with VadaTech or third party VPX compliant products. The VPX015 can simulate the payload, the RTM, dual FMC and the dual XMC modules.

The VPX015 has an integrated 4MB of Flash with 2.5MB of integrated SRAM. The Microcontroller can operate from -40°C to +85°C. **Controller uses less than ~0.3W of power when operating.**

Tool

VadaTech's VPX015 is available with binary tools easily installable on third party Linux or Windows for creating the FRU/SDR/Detailed HW description flash images and upgrading the board with them without need to compile software.

Figure 1: VPX015

Specifications

Architecture	
Physical	Dimensions 6U, 1" Pitch VITA 48.1 slot profile
Type	VPX IPMI MMC Controller
Standards	
Module Management	IPMI IPMI v2.0 and PICMG 3.0
Configuration	
Power	VPX015 3W
Environmental	Temperature Operating temp -40° to +85°C 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
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

VPX015- 000-000-000

Related Products

AMC015

- Third Generation IPMI MMC Controller, μ TCA module
- Meet all requirements per PICMG standard with up to two FMC modules and RTM
- Available tools for creating the FRU/SDR/Detailed HW description

ATC015

- Third Generation IPMI MMC Controller, AdvancedTCA module
- Meet all requirements per PICMG standard with up to 8 AMC modules and RTM
- Available tools for creating the FRU/SDR/Detailed HW description

VTX866

- MTCA System Platform 19" x 5U x 10.5" deep (with handles 12" deep)
- Full redundancy with dual MicroTCA Carrier Hub (MCH), dual Cooling Units and dual Power Modules
- Up to 12 AMCs in single width/full-size

Contact

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