

## **Complete IPMI Test Suite and Validation Platform**

VadaTech announces an easier way to add an Intelligent Platform Management Interface (IPMI) to your next design, the VT001 and VT020. VadaTech's IPMI solution is a complete IPMI hardware and software solution which runs on low power. All hardware and software required for IPMI is on a single board, either the VT001 or VT020 depending on your hardware interface requirements. The VT001 is targeted at shelves and carriers, while the

VT020 is intended to provide management controller functionality for I/O modules.

VadaTech also designed a simulator, the VT010, to test the VT001 and the VT020 in the lab environment. The VT010 can take up to eight VT020, one VT001 and one AMC (Advance Mezzanine module). All I/O from the VT001 and VT020 are routed out for easy access and simulation. All the chassis management command such as insertion and removal can be simulated on the board. This facilitates creation of a robust test environment and real world simulation.

The VT010 has a PCI-E uplink to simulate an AMC module in the system. The uplink provided by either an AMC103/PCI103 or PMC103 card. The VT010 is power by a standard ATX power supply.

### **KEY FEATURES**

- One VT001 Slot
- Eight VT020 Slot
- Single AMC Slot
- Dual GE 10/100/1000-BaseTX
- Easy access to all I/O



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# VTOIO Technical Specifications

## Modules

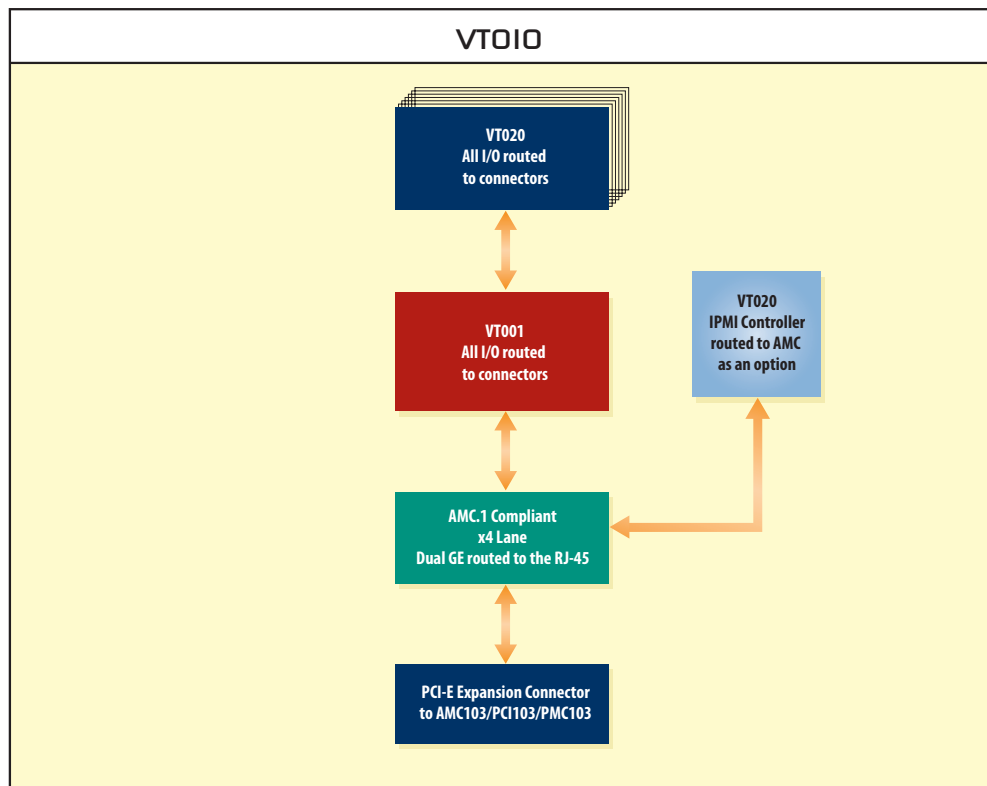
- One VT001
- Eight VT020
- One AMC

## AMC

- AMC.1 specification
- Single width, full height

## Power/Thermal

- Max 10W without the AMC module
- Operating Temp Range 0° to 60°C
- 5-95% relative humidity (non-condensing)



## **IIPMI 2.0 Commands**

### **IPM Device "Global" Commands**

- Get Device ID
- Broadcast Get Device ID
- Get Device GUID
- Cold Reset
- Warm Reset
- Get Self Test Results

### **BMC Watchdog Timer Commands**

- Reset/Get/Set Watchdog Timer
- Set/Get BMC Global Enables

### **BMC Device and Messaging Commands**

- Clear/Get Message Flags
- Get System GUID
- Set/Get ACPI Power State
- Get/Send Message
- Read Event Message Buffer
- Master Write/Read

### **Event Commands**

- Set/Get Event Receiver
- Platform Event (Event Message)

### **PEF and Alerting Commands**

#### **Sensor Device Commands**

- Get Sensor Reading Factors
- Set/Get Sensor Hysteresis
- Set/Get Sensor Threshold
- Set/Get Sensor Event Enable
- Get Sensor Reading
- Get/Set Sensor Type
- Rearm Sensor Events

### **FRU Device Commands**

- Get FRU Inventory Area Info
- Read/Write FRU Data SDR Device Commands.

### **SDR Device Commands**

- Get SDR Repository Info
- Get SDR Repository Allocation
- Reserve SDR Repository
- Get/Add SDR
- Partial Add SDR
- Delete SDR
- Set/Get SDR Repository Time
- Enter/Exit SDR Repository Update
- Run Initialization Agent

### **SEL Device Commands**

- Get SEL Info
- Get SEL Allocation Info
- Reserve SEL
- Get/Add SEL Entry
- Delete SEL
- Clear SEL
- Get/Set SEL

### **AdvancedTCA 3.0 Commands**

- Get PICMG Properties
- Get Address Info
- Get/Set Shelf Address Info
- FRU Control
- Get FRU LED Properties
- Get LED Color Properties
- Set FRU LED Properties
- Set/Get FRU LED State
- Set IPMB State
- Set/Get FRU Activation Policy
- Set FRU Activation
- Get Device Locator Record ID
- Set/Get Port State
- Compute Power Properties
- Set/Get Power Level
- Renegotiate Power
- Get Fan Speed Properties
- Set/Get Fan Level
- Get IPMB Link Info

### **AMC.x Commands**

- Set/Get AMC Port State

### **Capabilities**

- Remote Power On/Off
- Remote Reset
- SEL/SDR/FRU Monitoring
- IPMI Software Internal Logger
- E-Keying

### **Communication Interface**

- I2C
- RS232/RS485
- USB
- SPI

### **Sensor/Device Support**

- Voltage
- Temperature
- Fans
- LED
- Sequencer

### **Utility Support**

- SDR Creation Utility
- SDR Flash Utility
- FRU Creation Utility
- FRU Flash Utility
- SEL Viewer Utility
- Firmware Update Utility
- Web Based Administration Utility

### **Special Features**

- Customer Extensible Commands (OEM Commands)
- IPMI Offline Simulation and Debug

