



KEY FEATURES

- Complete ATCA 3.x IPMI compliant reference design with software
- 32-bit RISC processor
- No AMC module is supported in this design (if AMC is needed, use the VT027)
- Integrated 512K flash, WDT, A/D, dual I²C, dual SPI, etc.
- 64-pin HVQFN package
- Payload communication via any of the interfaces (I2C, RS232 or SPI)
- No up-front costs
- No royalties
- GCC tool chain
- Used on VadaTech ATCA products
- Development kit is available if needed (Reference VadaTech ATCO01 product)

The VadaTech VT028 is a reference schematic which provides a complete hardware and software solution that occupies only a 15mm x 15mm space on the ATCA module and dissipates less than 0.2 watts. The VT028 is for the ATCA modules that do not have any AMC slots. A single LPC2138 is utilized in this design.

The VT028 provides the quickest way to design for the ATCA form factor without prior IPMI knowledge. The VT028 firmware is field upgradeable and configurable via the I²C bus.

In most cases the VT028 can provide all the functionality needed for ATCA IPMI without modification. If support is required, VadaTech will provide support at minimal charge. For customers wanting to customize the binary, the VT028 development kit is all that is needed to add enhancements. The development tools are based on the GCC tool chain.

The VT028 is the most cost-effective solution in the market. The LPC2138's can be purchased from VadaTech pre-programmed.

An NDA is required to obtain the reference schematic.

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SPECIFICATIONS

| Standard | | |
|----------------------|---|--------------------------------------|
| PICMG | 3.x | IPMI specification |
| AMC | Type | AMC.0 IPMI specification |
| Configuration | | |
| Power | VT028 | < 0.2W |
| Environmental | Temperature | Operating Temperature: -40° to 85° C |
| | | Storage Temperature: -40° to +125° C |
| Other | | |
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Key Software Features:

- ❖ IPMI Version 2.0
 - ◆ FRU Inventory Access and Update
 - ◆ Device SDR Repository Access and Update
 - ◆ Initialization Agent
 - ◆ Temperature Sensors
 - ◆ Settable / readable sensor Thresholds and Hysteresis
 - ◆ Sensor Event Generation
 - ◆ Basic Mode Serial Messaging (Payload Interface)
 - ◆ Warm Reset
 - ◆ Cold Reset
 - ◆ Get self Test Results

- ❖ PICMG ATCA Version 3.x
 - ◆ IPMB-0
 - ◆ IPMB Sensors
 - ◆ IPMB Sensor Event Generation
 - ◆ ATCA Electronic Keying
 - ◆ Hot Swap Sensor
 - ◆ Hot Swap Event Generation
 - ◆ FRU Control
 - ◆ LED Controls

ORDERING OPTIONS

VT028 - 000 - 000 - 000

Use the above part number if ordering generic, pre-programmed LPC2138 parts from VadaTech. If VadaTech has customized your firmware, please contact Sales for the part number.

Note: The LPC2138 could be purchased from the NXP distributors.



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