

IPMI Firmware

The IPMI-FW is the one-stop solution for hardware and firmware integration in customers AMC boards, power modules or cooling units designed for TCA and similar systems. Do not waste time and money learning all about IPMI protocol, sensors, events and so on, better use our experience and implementation for your next design.



Features

- IPMI 2.0 specification
- MTCA R1.0 specification
- AMC.0 R1.0/2.0 specification
- HPM.1 R1.0 specification
- all mandatory and many optional commands
- E-keying, SDR and FRU support
- fully support of IPMB-L or IPMB0-A/B interface
- payload interface I2C or UART
- local sensor integration over I2C or SPI
- hardware supervisory functions
- timer and watchdog
- UART debug interface
- command line interface
- battery buffered real time clock
- supplementary serial flash and EEPROM
- successfully tested with different vendors
- written in standard `C`
- modular design for easy customisation

Availability of Binaries and Source Code

The IPMI Firmware is available as both a binary on a runtime license base and as source code.



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IPMI Firmware

Using the IPMI firmware as a binary is the easiest way to supply a “module management block” on any individual AMC-board. There is no need to establish know-how in this segment of microTCA, time-to-market for new products can be drastically reduced. The IPMI Firmware Sourcecode allows the customer to easily add specific modifications or enhancements to the existing IPMI implementation and use them in his products.

Specifications

- ARM7 32-Bit microcontroller family, up to 72 MHz
- IPM Device Global Commands
- Event Commands
- Sensor Device Commands
- FRU Device Commands
- SDR Device Commands
- AdvancedTCA PICMG 3.0 Commands
- AMC.0 Commands
- MicroTCA Commands
- Firmware Upgrade Commands
- Supported Sensors
- Software Utilities for Windows

IPMI firmware block diagram:

