

coreIPM®

Baseboard Management Controller Software & OPMA2368 Module

www.coreipm.com

coreIPM OPMA2368 Module is a plug-in solution for system management and embedded applications. It comes with open source software that can be modified freely. With a rich set of peripheral drivers and an operating environment, it provides a platform to build and ship your applications quickly.

coreIPM OPMA2368 Module runs the full suite of coreIPM software including **coreIPM-BMC** which is a free and open source Intelligent Platform Management Interface (IPMI) v2.0 specification compliant software that provides management functions for a motherboard. **coreIPM-BMC** integrates all system management functions into an off-the-shelf single chip microcontroller.

coreIPM-BMC is one component of the **coreIPM** management architecture. Other components of **coreIPM** provide management capability for elements of the IPMI, ATCA and MicroTCA environment such as ATCA/AMC blades, Cooling Units, Power Modules, and Shelf Managers.

coreIPM OPMA2368 Module

Is a SODIMM form factor (2.66" x 1.42" / 68mm x 36mm) daughtercard that conforms to the AMD Open Platform Management Architecture (OPMA) m2 specification for motherboard management.

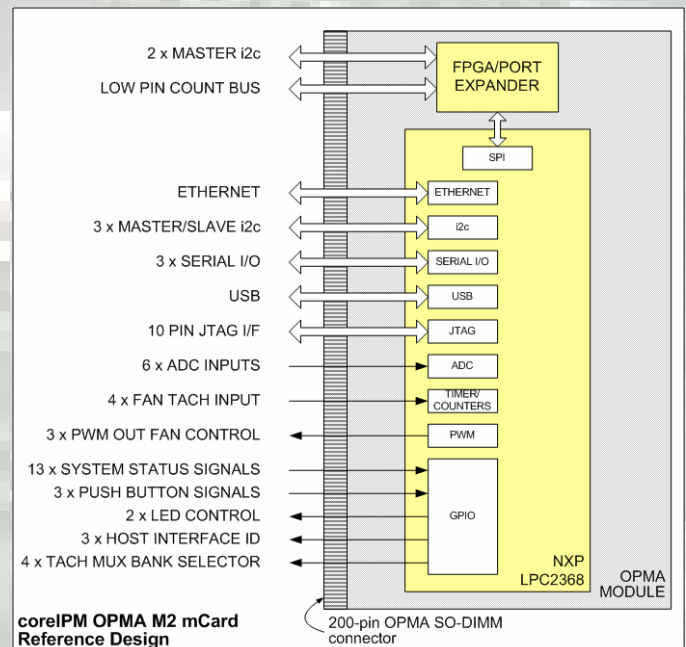
OPMA2368 Features

- NXP LPC2368/LPC1768 32-bit ARM7 microcontroller.
- Integrated 10/100 Ethernet MAC/PHY & magnetics.
- 3 Master/Slave i2c bus I/F
- 3 RS232 ports

- USB
 - 10 pin JTAG
 - 6 ADC inputs
 - 4 fan tach frequency counter inputs
 - 3 PWM outputs for fan control
 - 25 GPIO pins
- (Most pins are re-assignable for other applications.)



coreIPM OPMA2368 Module

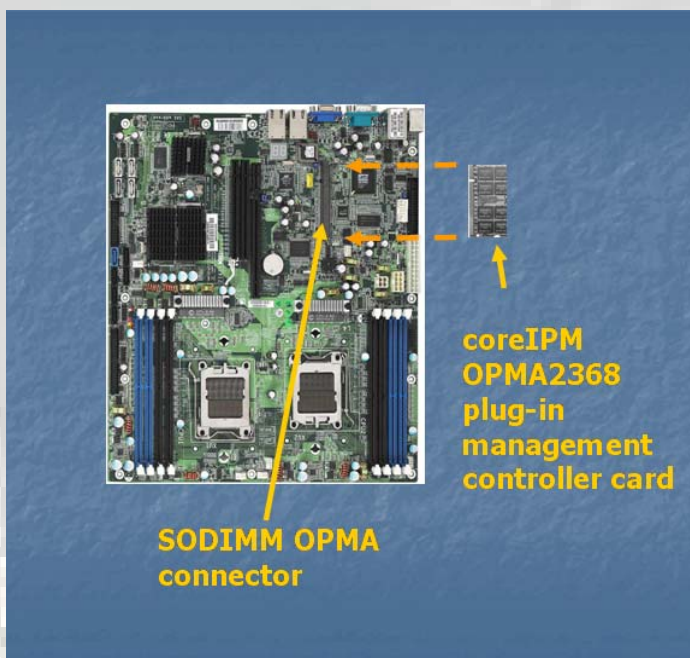


coreIPM OPMA2368 Block Diagram

coreIPM-BMC Supported Features

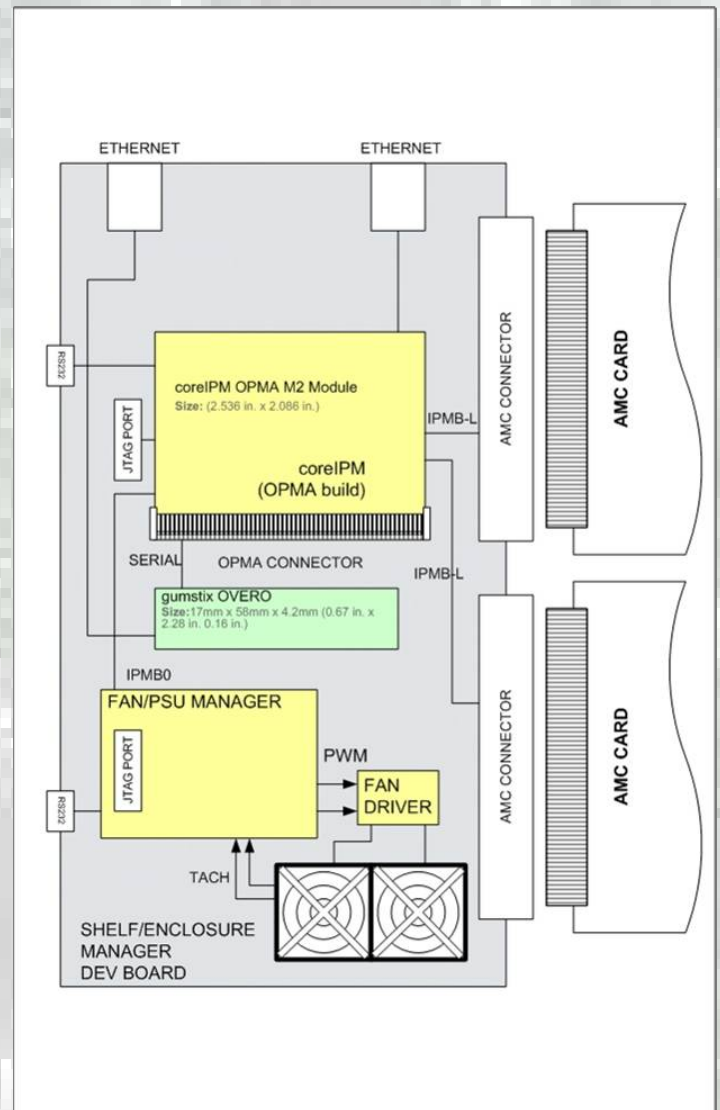
- Multiple i²c buses
- Terminal mode sytem interface over RS232
- Timers

- General purpose IO pins for latches, LEDs, backplane addressing, HW control and other uses
- RS232 ports
- ADC
- PWM fan control
- SPI EEPROMs
- Watchdog timer
- Edge or level sensitive interrupt pins
- In circuit flash programming, enabling in system firmware upgrades
- TCP/IP stack with RMCP+, SNMP Traps, Serial over LAN & crypto support
- JTAG interface
- xx75 family temperature sensor support
- Multi-session access
- User Privilege Levels
- Cipher Suites: HMAC-SHA1-96/AES-CBC-128



Development

Full set of development tools using either gcc or commercial compilers and debuggers are available from multiple vendors. JTAG interface enables program downloads and on-chip debugging. **coreIPM** provides a development board for system management integration & development for different applications.



coreIPM Development Board for Motherboard and Shelf Management

Licensing

Source code is available under the Open Source GNU General Public License (GPLv2) and commercial licensing. **coreIPM LLC** has full ownership of the source and can provide alternative licensing, reference designs, support, customization and consulting services. Commercial licensees don't have the requirement that their **coreIPM** based software be open sourced.

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