

coreIPM[®]

coreIPM-LINUX[®] for Gumstix Overo[™]

www.coreipm.com

coreIPM-LINUX is a fully fledged Linux distribution for OMAP 35xx architecture with built in support for coreIPM management architecture.

coreIPM-LINUX provides a ready to use, extremely compact drop in solution for platform management. It is specifically targeted towards shelf and appliance management.

coreIPM-LINUX specifically supports the gumstix Overo[™] OMAP 3503 board with ARM Cortex-A8 CPU at 600 MHz with 256MB RAM & 256MB Flash.



Processor: OMAP 3503 Application Processor with ARM Cortex-A8 CPU

Clock(MHz): 600 MHz

Performance: Up to 1200 Dhrystone MIPS

Memory: 256MB RAM
256MB Flash

Features:

- Plug compatible with future OMAP 35x-based Overo motherboards
- on-board microSD card slot
- I2C, PWM lines (6), A/D (6), 1-wire, UART, SPI, Extra MMC lines.
- USB OTG signals, USB HS Host

Connections: (2) 70-pin AVX connectors
(1) 27-pin flex ribbon connector

Size: 17mm x 58mm x 4.2mm
(0.67 in. x 2.28 in. 0.16 in.)

coreIPM-LINUX is one component of the *coreIPM* management architecture. Other components of *coreIPM* provide management capability for elements of the ATCA and MicroTCA environment such as ATCA carriers, Cooling Units, Power Modules, AMC Management Controllers and ATCA Shelf Managers.

coreIPM-LINUX supports the Intelligent Platform Management Interface (IPMI) specification v2.0 + PICMG[®] 3.0 R2.0 AdvancedTCA, PICMG[®] AMC.0 R2.0 Advanced Mezzanine Card and PICMG[®] MTCA.0 MicroTCA R1.0 specification extensions for blades and micro blades.

Supported features

- coreIPM interface for controlling multiple i²c buses and general purpose IO pins for latches, LEDs, backplane addressing, HW control and other uses
- RS232 debug port & command line interface
- RMCP+ network interface for sending and receiving IPMI commands
- SNMP Trap generation, SNMP server & MIB for platform management.
- OpenHPI server with coreIPM OpenHPI plug-in. HPI provides a standard and hardware independent service to upper level management software to set and retrieve configuration or operational data about the hardware components, and to control the operation of those components.

Development

The distribution includes the following components in pre-built and source form: x-loader, u-boot, LINUX kernel, BusyBox, CodeSourcery GNU ARM tools, flash utilities, coreIPM components.

Licensing

Source code is available under the Open Source GNU General Public License (GPLv2).

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For further information:
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