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Intel P4 Miniboard EmCORE-i6415



Features

- Socket 478 for Intel Pentium 4 CPU
- Intel 845 GE Chipset 400/533 MHz FSB
- One DDR Socket up to 1 GB
- Single LAN, Intel CH4 integrated or Intel 82540EM
- Supports 4 x AGP VGA, DDR, TMDS/LVDS & TV-Out
- Supports USB 2.0
- Supports DUAL LCD Display
- Supports Board ID

Specification

System CPU:

Intel Pentium® 4 up to 3.1 GHz in PGA socket

- **System Memory** : one DIMM socket for up to 1 GB of DDR 266/333 memory
- **L2 Cache**: Integrated in CPU, 265 or 512 KB
- **Chipset** : Intel 845GV/PE and Intel ICH4 with FSB 400/533 MHz
- **Enhanced IDE** : Supports two ports and up to 4 ATAPI devices, Ultra DMA transfer rates 100 MB/sec
- **BIOS** : AWARD Flash BIOS Green & Soft Off function, Multiple boot function
- **Expansion Bus** : 32-bit PCI
- **Watchdog Timer** : 128-level, system reset or NMI Multi I/O
- **Serial** : 3 high speed RS-232C ports (COM1, COM3, COM4) 1 high speed RS-232C/422/485 port (COM2)
- **Parallel** : Supports SPP, EPP and ECP mode, BIOS enabled/disabled
- **Floppy** : One port and up to 2 floppy disk drives
- **IrDA** : supports SIR IrDA 1.1 compliant
- **USB** : supports 4-port USB v2.0
- **KB/Mouse** : One PS/2 keyboard and one PS/2 mouse
- **GPIO** : 8-bit Single

LAN (10/100 or 1000)

- **Chipset** : integrated in ICH4
- **Ethernet Interface** : 10/100Base-TX or optional Gigabit LAN, Intel 82540EM (10/100/1000Mb)
- **Connector** : RJ-45

Flash Disk

- One DiskOnChip Socket up to 288 MB

Audio

- Chipset : Intel ICH4 integrated audio Audio
- Controller: AC97 Ver. 2.3 compliant interface

Dual LCD Display

Option 1 (EmCORE-i6415/VL)

- Chipset : Intel GMCH integrated graphics controller
- Display Memory : up to 64 MB (UMA)
- Display Type : CRT and LVDS
- Resolution : 2048 x 1536
- LVDS : 2 channels 24-bit

Option 2 (EmCORE-i6415/VLA)

- Chipset : ATI M7
- Display Memory : 16 MB on dye
- Display Type : Flat Panel and CRT displays
- Resolution : up to 1600x1200 32bpp
- LCD Interface : supports LVDS & TMDS
- LVDS : 2 channels
- TV-out : support NTSC, PAL NTSC-EIA (Japan) formats, 640 x 480 resolution

Mechanical and Environmental

- Operating Temperature : 0 to 60°C (32 to 140°F)
- Relative Humidity : up to 90% @ 55°C
- Board Size : 203 mm x 146 mm (8" x 5.75")

Ordering Information

- **EmCORE-i6415VL**
5.25" Intel Pentium 4 Miniboard with DDR memory, Flat Panel/CRT/TV-out, 10/100 Mbps LAN, Audio, 8-bit GPIO and 4 Serial Ports.
- **EmCORE-i6415VLA**
same as above with Gigabit LAN