

# EmCORE-i6415

5.25" Intel Pentium 4 Socket 478 Miniboard with DDR Memory Support, Gigabit LAN CRT/DVI/LCD/TV-Out



## Features

- \* Intel Pentium 4 Socket 478 CPU up to 3.06Ghz FSB400/533Mhz
- \* 1 x 184Pin DIMM up to 1GB DDR SDRAM
- \* LAN 10/100Mbps or Gigabit LAN
- \* ATI M7 VGA Chipset, CRT, LVDS, DVI (TMDS) & TV-out support
- \* Dual display support
- \* 4 x USB 2.0 compliant
- \* Mini PCI socket for Wireless LAN

## System

CPU	Intel Pentium 4 socket 478 CPU up to 3.06Ghz FSB400/533Mhz
Cache	2nd level 512KByte
Memory	1 x 184Pin DIMM up to 1GB DDR SDRAM
Chipset	Intel 845GV + Intel ICH4
BIOS	Phoenix-AWARD PnP Flash BIOS
ATA/IDE	1 x Ultra DMA 33, support 2 IDE drives 1 x Ultra DMA 100, support 2 IDE drives
Watchdog Timer	255-level Reset

## I/O

Serial port	3 x RS-232 ports (COM1/3/4) 1 x RS-232/422/485 port (COM2)
Parallel port	SPP/EPP/ECP mode
Floppy	Support 2 Floppy disk drives
IrDA	1 x SIR IrDA 1.1 compliant
USB port	4 x USB 2.0 compliant
K/B & Mouse	1 x PS2 K/B and Mouse
Expansion Bus	1 x 32 bit / 33Mhz PCI Slot 1 x 32 bit / 33Mhz Mini PCI Socket

## Ethernet

Chipset	Intel 82562EZ 10/100base-T Intel 82540EM 1000base-T (Gigabit) (optional) Built-in Boot ROM in Flash BIOS, support Boot from LAN
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## Audio

Codec/Interface	Realtek ALC202A AC97 Codec, support Mic-in / Line-in / Line-out
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## Display (EmCORE-i6415VL)

Graphics Chipset	Intel 845GV Extreme Graphics2 Engine up to 64MByte UMA Video RAM
Graphics Interface	CRT support up to 1600 x 1200 LCD support 48 bit LVDS up to 1024 x 768 TV-out support NTSC / PAL up to 1024 x 768

## Display (EmCORE-i6415VL/GA)

Graphics Chipset	ATI M7/M9 Graphics Engine up to 32MByte Video RAM on die
Graphics Interface	CRT support up to 1600 x 1200 LCD support 18~48 bit LVDS up to 1600 x 1200 TV-out support NTSC, / PAL / NTSC-EIA (Japan) up to 1024 x 768 DVI support 12 bit up to 1024 x 768

## Mechanical & Environmental

Power Consumption	EmCORE-i6415VL/3.06Ghz 5V/0.88A, 12V/4.56A, 3.3V/1.25A (Max.)
Operating Temperature	0 ~ 60°C (32 to 140°F)
Operating Humidity	Up to 90% @ 55°C
Dimension (W x L)	146 x 203 mm (5.75" x 8")
Weight	0.36 kg (0.79 lb)

## Ordering Information

EmCORE-i6415VL	5.25" Intel Pentium 4 miniboard, DDR memory, flat panel / CRT / TV-out, 10/100Mbps LAN, 4 x USB, 4 x serial ports
EmCORE-i6415VL/GA (Optional)	5.25" Intel Pentium 4 miniboard, DDR memory, ATI VGA flat panel / CRT / DVI / TV-out, Giga LAN, Audio, 4 x USB, 4 x serial ports
Cable Kit	CBK-10-6415-01 <span style="float: right;">Page 5-2</span>
Memory Module	DDR SDRAM 128MB DIMM 184Pin DDR SDRAM 256MB DIMM 184Pin DDR SDRAM 512MB DIMM 184Pin DDR SDRAM 1GB DIMM 184Pin