

# EmCORE-i6415

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

Embedded  
Miniboards



## 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 M9 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

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

## I/O

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

## Ethernet

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

## Audio

<b>Codec / Interface</b>	Realtek ALC202A AC97 Codec, support Mic-in / Line-in / Line-out
--------------------------	--

## Display

<b>Graphics Chipset</b>	Intel 845GV Extreme Graphics2 Engine up to 64MByte UMA Video RAM
<b>Graphics Interface</b>	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

## Mechanical & Environmental

<b>Power Consumption</b>	EmCORE-i6415VL/3.06GHz 5V/0.88A, 12V/4.56A, 3.3V/1.25A (Max.)
<b>Operating Temp.</b>	0 ~ 60°C (32 ~ 140°F)
<b>Operating Humidity</b>	0% ~ 90% (non-condensing)
<b>Dimension (W x L)</b>	146 x 203 mm (5.75" x 8")

## Ordering Information

<b>EmCORE-i6415VL</b>	5.25" Intel Pentium 4 miniboard, DDR memory, flat panel / CRT / TV-out, 10/100Mbps LAN, 4 x USB, 4 x serial ports
<b>EmCORE-i6415VL/GA (Optional)</b>	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
<b>Cable Kit</b>	CBK-10-6415-01 Page 5-2
<b>Memory Module</b>	DDR SDRAM 128MB DIMM 184Pin DDR SDRAM 256MB DIMM 184Pin DDR SDRAM 512MB DIMM 184Pin DDR SDRAM 1GB DIMM 184Pin
<b>FCDB-1223</b>	DVI Daughter board Page 5-6