

# Em104P-i7013

Intel Celeron M or Pentium M CPU Board with VGA/LCD, LAN x 2, CF, PC/104 & PC/104-Plus

Computer  
on Module



## Features



- Intel Ultra Low Voltage Celeron M 600MHz (7W) CPU onboard FSB400MHz
- Intel Ultra Low Voltage Celeron M 1GHz (5W) CPU onboard FSB400MHz
- Intel Low Voltage Pentium M Dothan 1.4GHz (10W) CPU onboard FSB400MHz
- Support DDR 200/266 up to 1GB DDR SDRAM
- Support Dual Display (Independent Display)
- Support 18/36 bit LVDS, TFT LCD
- Support 4 high speed USB2.0 ports
- Support Compact Flash Type I/II
- Support Dual 10/100base-T Ethernet

## System

<b>CPU</b>	Intel Low Voltage Pentium M Dothan 1.4GHz CPU FSB400MHz
	Intel Ultra Low Voltage Celeron M 600MHz CPU FSB400MHz
	Intel Ultra Low Voltage Celeron M 1GHz CPU FSB400MHz
<b>Cache</b>	2nd level 2MByte max.
<b>Memory</b>	1 x 200Pin SO-DIMM up to 1GB DDR SDRAM
<b>Chipset</b>	Intel 852GM + Intel ICH4
<b>BIOS</b>	Phoenix-AWARD PnP Flash BIOS
<b>ATA/IDE</b>	1 x Ultra DMA 33, support 2 IDE drives
<b>Flash Disk</b>	1 x Type II Compact Flash Disk Socket
<b>Watchdog Timer</b>	255-level Reset

## I/O

<b>Serial Port</b>	3 x RS-232 ports (COM1/3/4) 1 x RS-232/485 port (COM2)
<b>Parallel Port</b>	SPP/EPP/ECP mode share with Floppy
<b>Floppy</b>	Floppy shared with Parallel port Can be implemented on carrier board (2nd I/O) Can be used as an external USB Floppy
<b>IrDA</b>	1 x SIR IrDA 1.1 compliant
<b>USB Port</b>	4 x USB 2.0 compliant
<b>KB / MS</b>	1 x PS2 K/B and Mouse
<b>Expansion Bus</b>	1 x 32 bit / 33MHz PCI/104 Plus interface 1 x 16 bit ISA-based PC/104 interface
<b>Digital I/O</b>	8bit Digital Input/Output

## Ethernet

<b>Chipset</b>	1 x Realtek 8100BL 10/100 base-T 1 x Intel 82562EZ 10/100 base-T Built-in Boot ROM in Flash BIOS, support Boot from LAN
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## Audio

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

<b>Graphics Chipset</b>	Intel 852GM Extreme Graphics2 Engine up to 64MByte UMA Video RAM
<b>Graphics Interface</b>	CRT support CRT QXGA up to 2048 x 1536 LCD support 18/36 bit LVDS UXGA up to 1600 x 1200 Dual Mode support Independent dual display

## Mechanical & Environmental

<b>Power Consumption</b>	Em104P-i7013/CM600 5V/3.31A (Max.)
<b>Operating Tem.</b>	0 ~ 60°C (32 ~ 140°F)
<b>Operating Humidity</b>	0 ~ 90% (non-condensing)
<b>Dimension (L x W)</b>	114 x 95mm (4.5" x 3.7")

## Ordering Information

<b>Em104P-i7013/PM1400</b>	PC/104 Plus Intel Low Voltage Pentium M Dothan 1.4GHz CPU Board with CRT/LVDS/2 x LAN
<b>Em104P-i7013/CM600</b>	PC/104 Plus Intel Ultra Low Voltage Celeron M 600MHz CPU board with CRT/LVDS/2 x LAN
<b>Em104P-i7013/CM1000</b>	PC/104 Plus Intel Ultra Low Voltage Celeron M 1GHz CPU FSB400MHz with CRT/LVDS/2 x LAN
<b>Cable Kit</b>	CBK-10-1100-00 <span style="float: right;">Page 5-1</span>
<b>Heat sink</b>	HS-0701-W2 <span style="float: right;">Page 5-5</span>
<b>Memory Module</b>	DDR SDRAM 128MB SO-DIMM 200Pin DDR SDRAM 256MB SO-DIMM 200Pin DDR SDRAM 512MB SO-DIMM 200Pin DDR SDRAM 1GB SO-DIMM 200Pin