



EmModule-8313

Wide Range Operating Temperature Intel® Core™ Duo L2400 PC/104-Plus CPU Module

Computer on Module

Compact Board

Slot Board

Industrial Motherboard

Wide Temperature

SBC Daughterboard / Power Connector / Mounting Kit

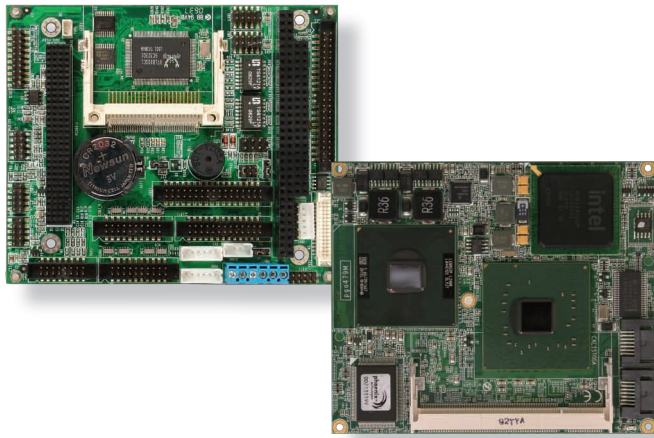
Rugged Tablet PC

Medical PC

Industrial Panel PC/Monitor

Box PC

Industrial Chassis / Backplane / Power supply



Features

- Fanless Design
- Soldered Onboard Intel® Core Duo L2400 CPU
- Dual Channels 24-bit LVDS, and Analog RGB
- Dual Ethernet
- Multi-expansion (4 x USB, 4 x Serial Ports, 2 x SATA on CPU Module, 1 x PATA, PC/104-Plus, 1xCF Socket)
- Wide Range Operating Temp.: -40 ~ 85°C

System

Processor	Intel® Core™ Duo L2400 1.66GHz CPU with 667MHz FSB
Memory	1 x 200-pin DDR2 SO-DIMM Socket supporting 400/533/667MHz SDRAM up to 2GB
Chipset	Intel® 945GME + ICH7M
BIOS	Phoenix-Award PnP Flash BIOS
Storage	1 x Ultra ATA, support 2 IDE devices 2 x Serial ATA ports with 150MB/s HDD transfer rate
Watchdog Timer	1~255 levels reset

I/O

I/O Chip	Primary: Winbond W83627HG Secondary: Winbond W83977
Serial Port	4 x COM ports (3 x RS-232, 1 x RS-232/422/485 selectable)
Parallel Port	SPP/EPP/ECP mode
Floppy	1 x Floppy disk drive shared with parallel port
USB Port	4 x USB 2.0 ports
KB/MS	One 1 x 6 wafer connector for Keyboard and Mouse
Digital I/O	16-bit programmable Digital Input/Output, 8 in/8 out
Expansion Bus	PC/104-Plus interface

Ethernet

Chipset	1 x Intel® 82562ET PCI 10/100Base-T Ethernet controller 1 x Realtek RTL8110SCL PCI Gigabit Ethernet controller
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Audio

CODEC/Interface	Realtek ALC655 6 Channel AC97 CODEC, Mic-in/Line-in/Line-out
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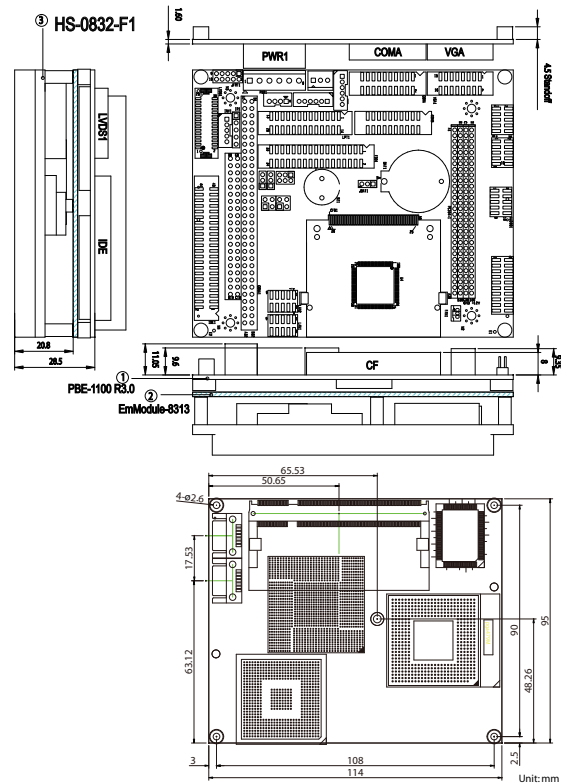
Display

Graphics Chipset	Integrated Intel® Graphics Media Accelerator 950
Graphics Interface	Analog RGB support up to 2048 x 1536 LCD: Dual Channels 24-bit LVDS

Mechanical & Environmental

Power Consumption	TBD (with L2400)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	0 ~ 90% (non-condensing)
Dimension (L x W)	114 x 95 mm (4.5" x 3.7")

Dimensions



Ordering Information

EmModule-8313-RG/L2400	ETX-832E/L2400 ETX® CPU module + PBE-1100-R3.1 ETX® carrier board
HS-0832-F1	Heat spreader (114 x 95 x 20.8 mm)
CBK-16-1100-01	Cable kit for PBE-1100 R3.1
	1 x Audio cable 2 x Ethernet cables
	2 x USB cables 1 x VGA cable
	2 x COM port cables 1 x KB & MS cable
	1 x LPT to FDD cable 2 x SATA cables
	1 x IDE cable 1 x Power cable (4 wires)
	1 x LPT cable 1 x Power cable (2 wires)

All specifications are subject to change without notice.