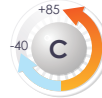
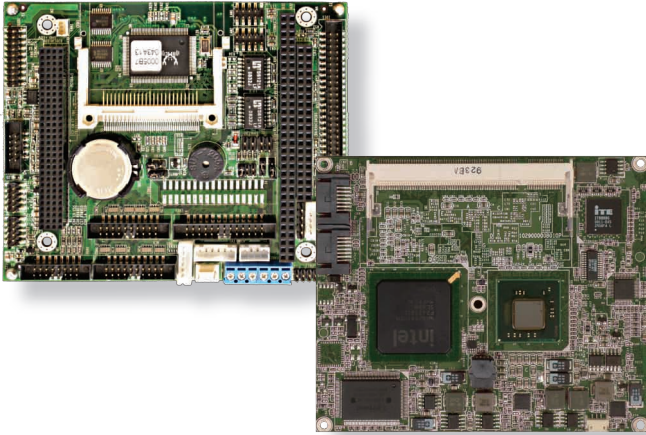




EmModule-7413

Wide Range Operating Temperature Intel® Atom™ N450 PC/104-Plus CPU Module



Features

- Fanless Design
- Soldered Onboard Intel® Atom™ N450 1.6GHz Processor
- Single Channel 18-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, and 1 x CF Socket)
- Wide Range Operating Temp.: -40 ~ 85°C

System

CPU	Intel® Atom™ N450 1.6GHz CPU
Memory	1 x 200-pin DDR2 SO-DIMM Socket supporting 667MHz SDRAM up to 1GB
Chipset	Intel® Atom™ N450 + ICH8M
BIOS	AMI PnP Flash BIOS
Storage	1 x Ultra ATA, support 2 IDE devices 2 x Serial ATA ports with 300MB/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 PS/2 interface 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 Realtek 8103EL PCIe 10/100Base-T Ethernet controller 1 x Realtek RTL8110SCL PCI Gigabit Ethernet controller
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Audio

CODEC/Interface	Realtek ALC888 7.1 Channel HD Audio CODEC, Mic-In/Line-In/Line-out
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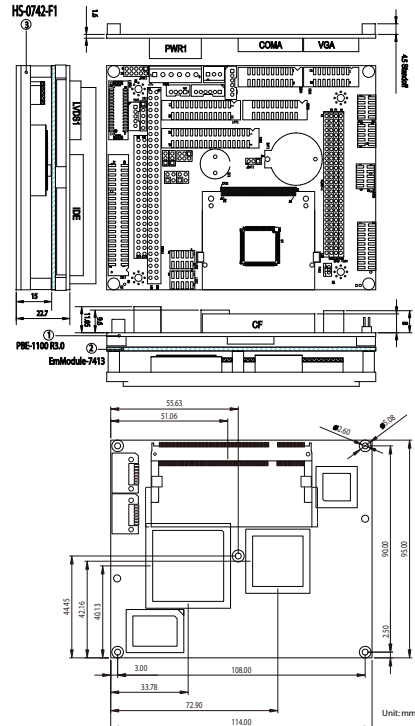
Display

Graphics Chipset	Integrated Intel® Graphics Media Accelerator Gen3.5
Graphics Interface	Analog RGB support up to 1400 x 1050 @60Hz LCD: Single Channel 18-bit LVDS, up to 1280 x 800

Mechanical & Environmental

Power Consumption	TBD
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-7413-RG	ETX-742E ETX® CPU module + PBE-1100-R R3.1 ETX® carrier board	
HS-0742-W1	Heatsink wave type (114 x 95 x 16mm)	
HS-0742-F1	Heat spreader (114 x 95 x 15mm)	
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.

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