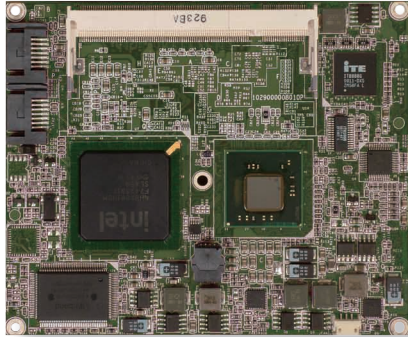




EmETX-i2900

Intel® Atom™ N450 ETX® CPU Module



ETX

Features

- **Fanless Design**
- Soldered Onboard Intel® Atom™ N450 1.6GHz Processor
- Single Channel 18-bit LVDS, and Analog RGB
- Multi-expansion (2 x SATA on CPU Module, 1 x PATA, 4 x USB, 2 x Serial Ports, 4 x PCI Masters, ISA Bus)
- **Extended Operating Temp.: -20 ~ 70°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
	1 x Floppy disk drive shared with parallel port
Watchdog Timer	1~255 levels reset

I/O

I/O Chip	Winbond W83627HG
Serial Port	2 x COM ports (1 x RS-232, 1 x RS-232/422/485 selectable via PBE-1000)
Parallel Port	SPP/EPP/ECP mode
USB Port	4 x USB 2.0 ports
KB/MS	PS/2 interface for Keyboard and Mouse (via PBE-1000)
Expansion Bus	PCI (4 x PCI masters) and ISA bus

Ethernet

Chipset	1 x Realtek 8103EL PCIe 10/100Base-T 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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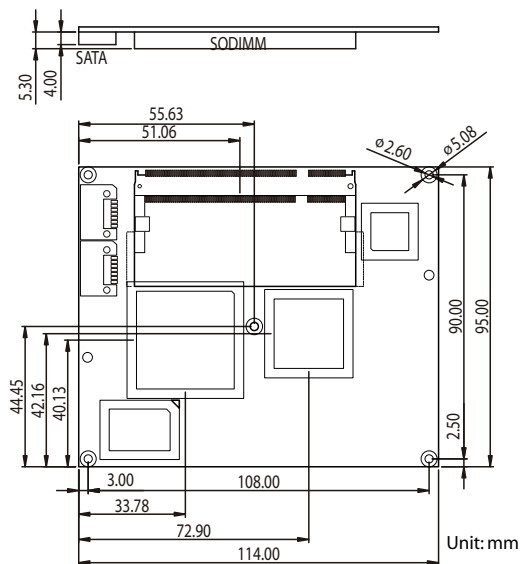
Display

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.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	0 ~ 90% (non-condensing)
Dimension (L x W)	114 x 95 mm (4.5" x 3.7")

Dimensions



Ordering Information

EmETX-i2900	Intel® Atom™ N450 1.6GHz ETX® CPU module
HS-0742-W1	Heatsink wave type (114 x 95 x 19 mm)
HS-0742-F1	Heat spreader (114 x 95 x 8 mm)
PBE-1000 R2.1	ETX® evaluation board in ATX form factor Page 1-20
CBK-05-1000-00	Cable kit for PBE-1000 R2.1
	1 x FDD cable
	3 x COM port cables
	1 x USB cable
	2 x IDE cables
	1 x TV-out cable

All specifications are subject to change without notice.