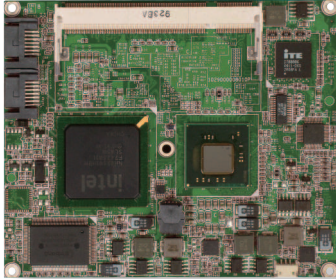


EmETX-i2900

ETX

Intel® Atom™ Processor N450/D510 ETX CPU Module



Features

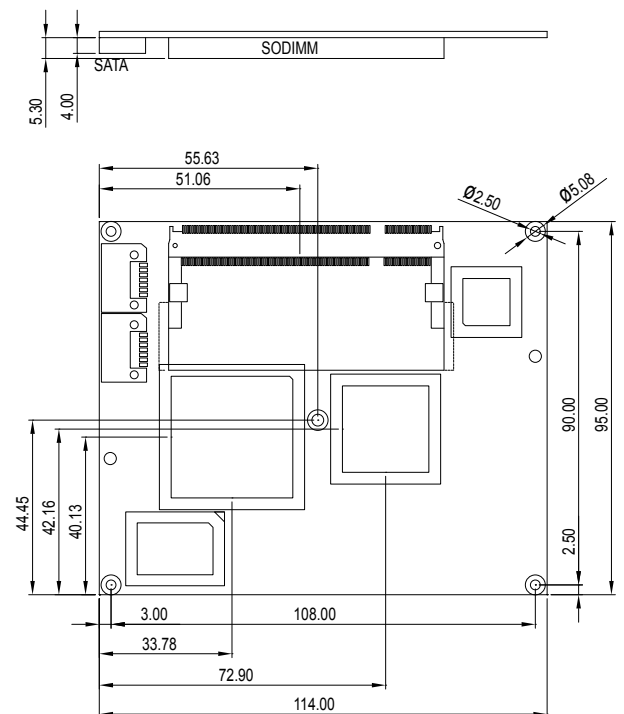
- **Fanless Design**
- ETX 3.0 with SATA Connectors
- Soldered onboard Intel® Atom™ Processor N450/D510
- Single Channel 18-bit LVDS, and Analog RGB
- **Extended Operating Temp.: -20 ~ 70°C**

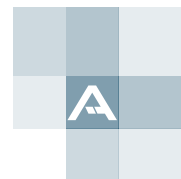
System	
CPU	Soldered onboard Intel® Atom™ Processor N450 1.6GHz / D510 1.66GHz
Memory	1 x 200-pin DDR2 SO-DIMM socket, supporting 667MHz SDRAM up to 2GB
Chipset	Intel® ICH8M
BIOS	AMI PnP Flash BIOS
Watchdog Timer	1~255 levels reset
I/O	
I/O Chip	Winbond W83627HG
Serial Port	2 x COM ports
Parallel Port	SPP/EPP/ECP mode selectable
USB Port	4 x USB 2.0 ports
KB/MS	PS/2 interface for keyboard and mouse
Expansion Bus	PCI (4 x PCI masters) and ISA bus LPC (Low Pin Count) connector
Storage	1 x Ultra ATA port, supporting 2 IDE devices 2 x Serial ATA ports with 300MB/s HDD transfer rate
Ethernet Chipset	1 x Realtek 8103EL PCIe 10/100Base-T Ethernet controller
Audio	Realtek ALC888 7.1 Channel HD Audio Codec, Mic-in/ Line-in/Line-out
Display	
Graphic Chipset	Integrated Intel® Graphics Media Accelerator 3150
Graphic Interface	Analog RGB that supports resolution up to: - 1400 x 1050 @60Hz (N450) - 2048 x 1536 @60Hz (D510) Single channel 18-bit LVDS that supports resolution up to: - 1280 x 800 or 1366 x 768 (N450) - 1366 x 768 (D510)

Mechanical & Environmental

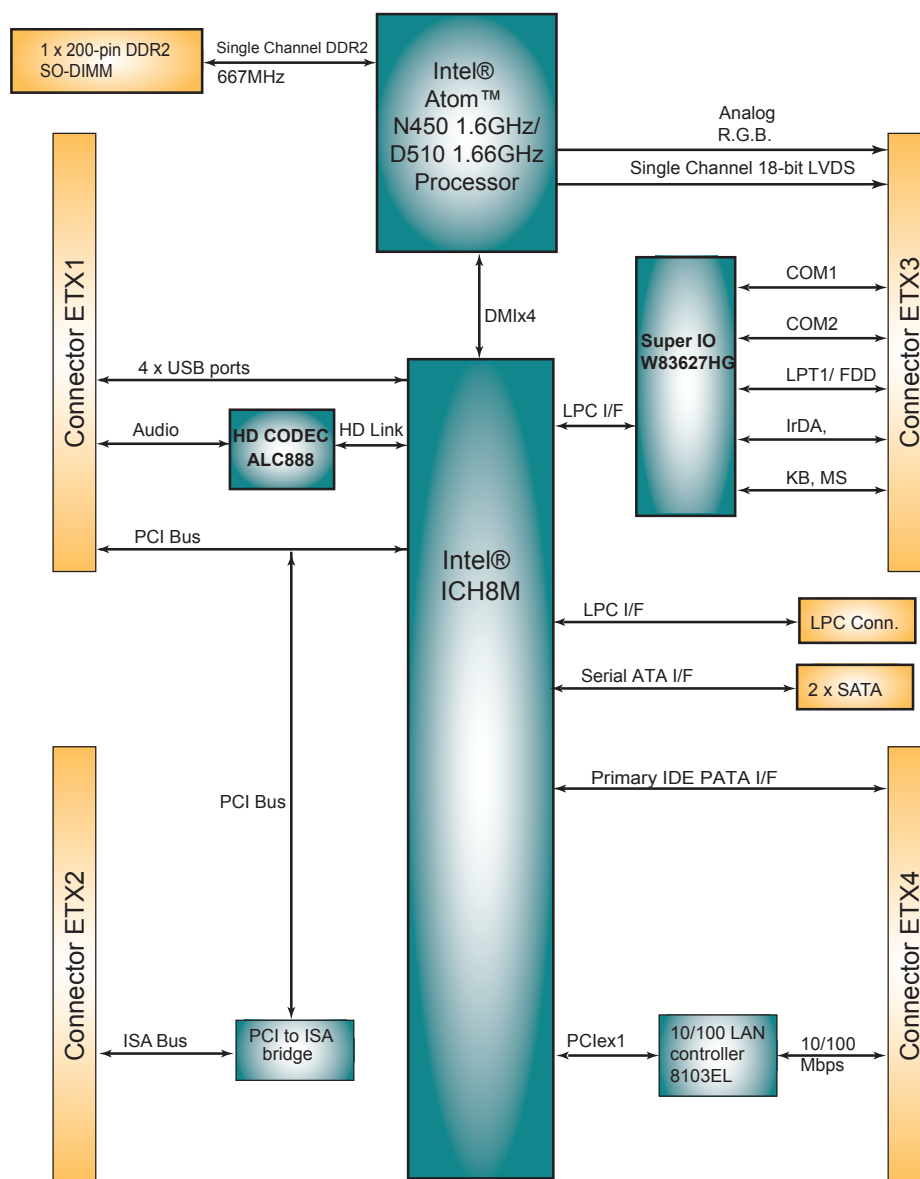
Power Requirement	+5V, 5VSB
Power Consumption	2.21A@+5V with N450 CPU (Typical) 3.18A@+5V with D510 CPU (Typical)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimensions (L x W)	114 x 95 mm (4.5" x 3.7")

Dimensions





Block Diagram



Ordering Information

EmETX-i2900-N4 Intel® Atom™ Processor N450 1.6GHz ETX CPU module

EmETX-i2900-D5 Intel® Atom™ Processor D510 1.66GHz ETX CPU module

Optional Accessories

HS-0742-F3 Heat spreader (114x95x8 mm)

HS-0000-W4 Universal evaluation heatsink kit with thermal pad (dimension: 125x95x22mm, only used on a flat type heat spreader)

PBE-1000 R2.1 ETX® evaluation board in ATX form factor

CBK-05-1000-00 Cable kit for PBE-1000 R2.1
 1 x FDD cable
 3 x COM-port cables
 1 x TV-out cable
 1 x USB cable
 2 x IDE cables