

EmETX-i2304

ETX

Intel® Atom™ Processor E3800 family ETX CPU Module



Features

- Soldered Onboard Intel® Atom® Processor E3800 family
- Support LVDS, Analog RGB and DDI Port
- Integrated 10/100base-T Ethernet
- **Extended Operating Temp.: -20 ~ 70°C**
- **Wide Range Operating Temp.: -40 ~ 85°C (WT series)**

System	
CPU	Intel® Atom™ Processor E3825 dual-core 1.33GHz or E3845 quad-core 1.91GHz Intel® Atom™ Processor E3826 dual-core 1.46GHz or E3827 dual-core 1.75GHz (BTO)
Memory	1 x 204-pin SO-DIMM socket, up to 8GB DDR3L 1333 MT/s SDRAM
BIOS	Insyde BIOS
Watchdog Timer	1~255 levels reset
I/O	
Super IO Chipset	Fintek F71869ED
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 on the module
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 8105E PCIe 10/100Base-T Ethernet controller
Audio Interface	Realtek ALC662 5.1 Channel HD Audio CODEC, Mic-in/ Line-in/Line-out
Display	
Graphics Chipset	SoC Integrated Intel® Gen7 graphic Analog RGB
Graphics Interface	24-bit Dual Channels LVDS supported via eDP to LVDS NXP PTN3460 1 x DDI port connector on the module

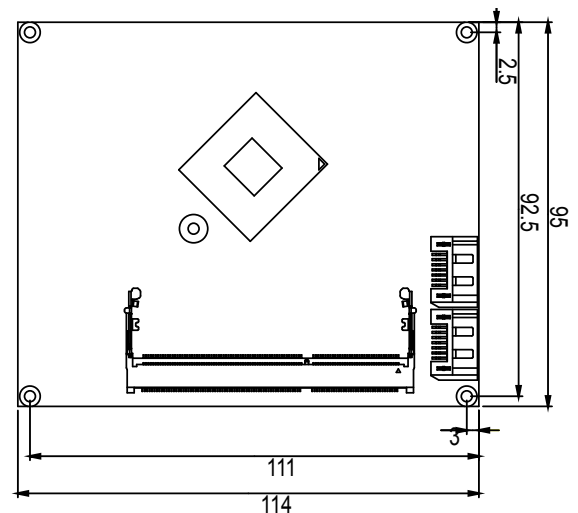
Mechanical & Environmental

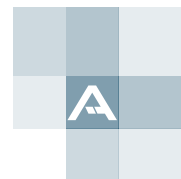
Power Requirement	+5V, 5VSB
Power Consumption	2.88A@+5V (typical, W/E3845) 2.26A@+5V (typical, W/E3825)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F) -40 ~ 85°C (-40 ~ 185°F, WT series) 10 ~ 95% @ 70°C (non-condensing)
Operating Humidity	10 ~ 95% @ 85°C (non-condensing, WT series)
Dimension (L x W)	114 x 95 mm (4.5" x 3.7")

OS Support

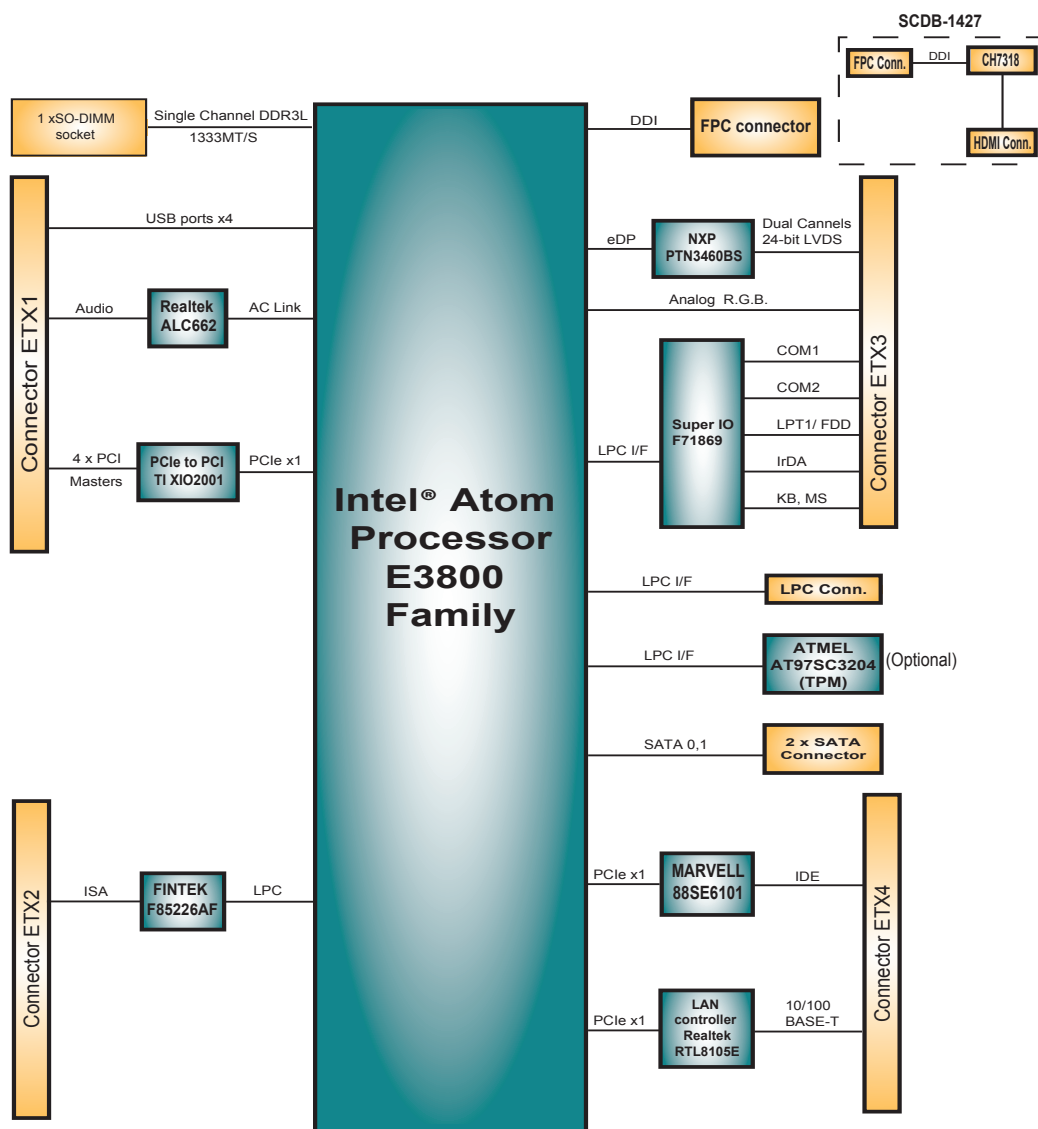
Windows 7 32-bit/64-bit
Windows 8.1 32-bit/64-bit
Linux: Ubuntu

Dimensions





Block Diagram



Ordering Information

EmETX-i2304-E3825	Intel® Atom™ Processor E3825 ETX CPU module
EmETX-i2304-E3845	Intel® Atom™ Processor E3845 ETX CPU module
EmETX-i2304-E3826(BTO)	Intel® Atom™ Processor E3826 ETX CPU module
EmETX-i2304-E3827(BTO)	Intel® Atom™ Processor E3827 ETX CPU module
EmETX-i2304-WT-E3825(BTO)	Wide range temperature Intel® Atom™ Processor E3825 3.5" Compact Board
EmETX-i2304-WT-E3845(BTO)	Wide range temperature Intel® Atom™ Processor E3845 3.5" Compact Board

Optional Accessories

HS-2304-F1	Heat spreader (114 x 95 x 18 mm)
PBE-1000 R2.1	ETX® evaluation board in ATX form factor
CBK-05-1000-00	Cable kit 1 x FDD cable 3 x COM port cables 1 x USB cable 2 x IDE cables 1 x TV-out cable