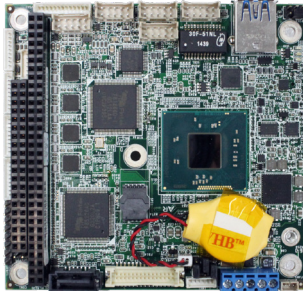


# Em104-i230F R2.1



## Wide-Range Temperature Intel® Atom™ E3800 PC/104 CPU Module



### Features

- **Fanless Design**
- Support Intel® Atom™ E3800 Family
- Dual Gigabit Ethernet ports
- LVDS, Analog RGB Port
- Support Dual Independent Displays
- **Wide-Range Operating Temp.: -40 ~ 85°C**

### System

CPU	Soldered onboard Intel® Atom™ Processor E3825 dual-core 1.33GHz E3845 quad-core 1.91GHz
Memory	1 x DDR3L SO-DIMM socket, supporting up to 8GB 1333 MT/s SDRAM
BIOS	Insyde BIOS
Watchdog Timer	1~255 levels reset

### I/O

Super I/O Chip	Fintek F81866
Serial Port	2 x RS-232 2 x RS-232/422/485 selectable
USB Port	2 x USB 2.0 ports 1 x USB 3.0 port
KB/MS	6-pin wafer connector for PS/2 keyboard and mouse via Y-cable
Expansion	PC/104 interface

Storage	1 x Serial ATA port with 300MB/s HDD transfer rate 1 x mSATA socket (Socket shared and BIOS selectable with Mini-card)
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Ethernet Chipset	2 x RTL8111H PCIe GbE controllers
Digital I/O	8-bit programmable
Audio	Realtek ALC888S HD Audio CODEC, Mic-in/ Line-in/Line-out

### Display

Graphic Chipset	Integrated Intel® HD Graphics
Graphic Interface	Analog RGB that supports resolution up to 2048 x 1536 LCD: Dual Channel 24-bit LVDS

### OS Support

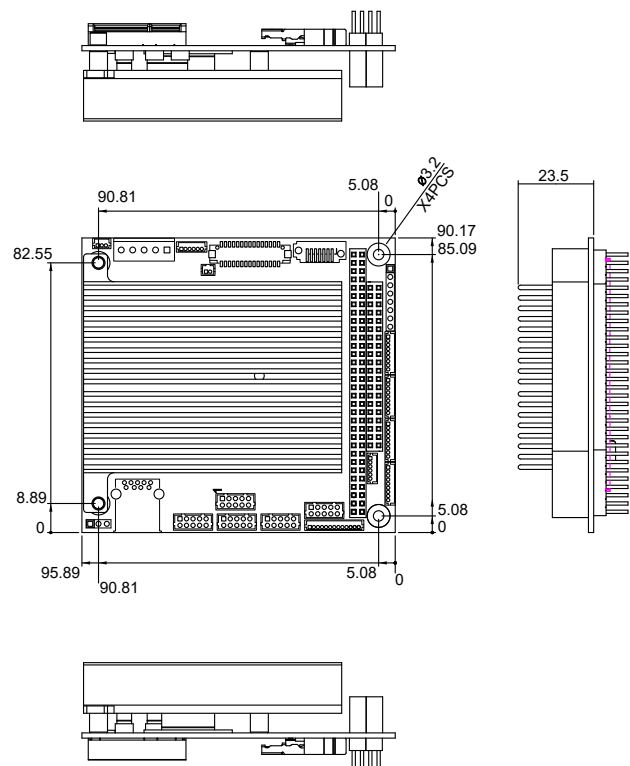
Windows 7 32-bit/64-bit without ISA support*
Windows 8.1 32-bit/64-bit without ISA support*
Windows 10 IoT
Linux: Ubuntu

\*Note: OEM Request for ISA support

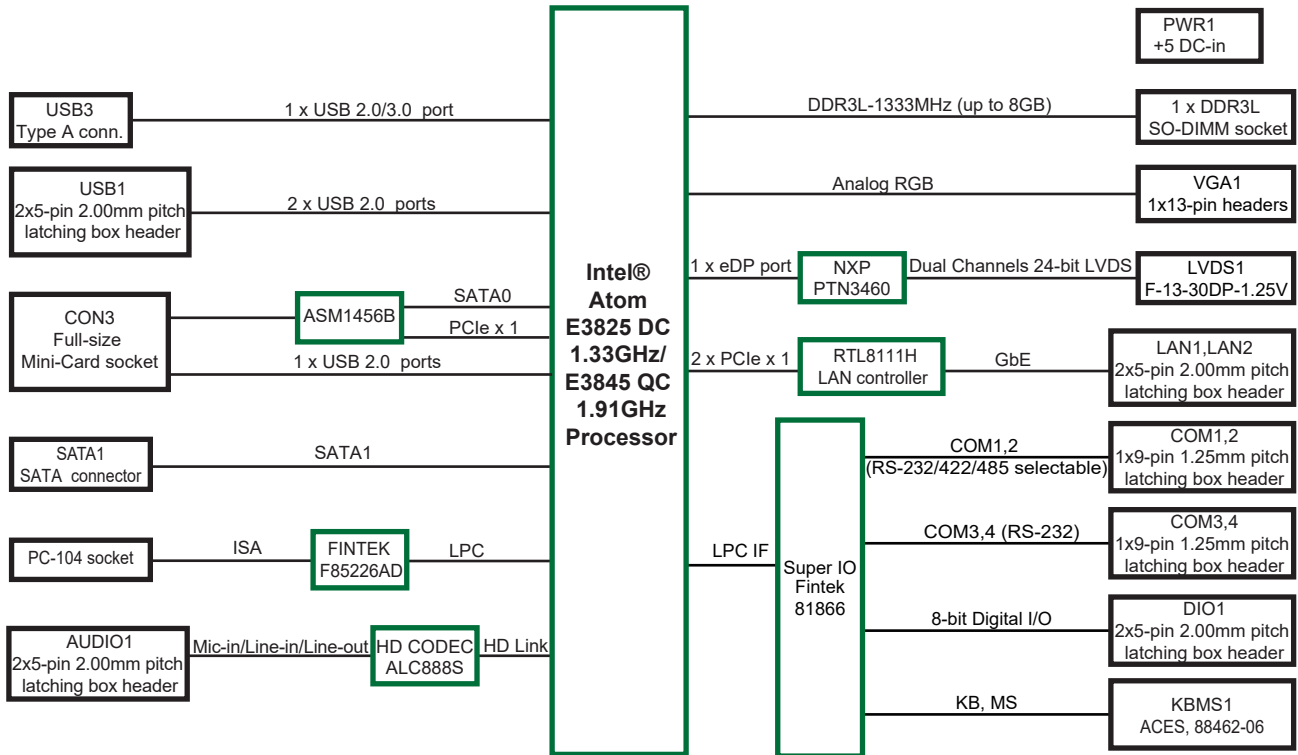
### Mechanical & Environmental

Power Requirement	+5V (Additional +12V might be required for LCD panel and PC104)
Power Consumption	1.81A@5V with E3825 (Typical) 2.24A@5V with E3845 (Typical)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 85°C (non-condensing)
Dimension (L x W)	96 x 90 mm (3.8" x 3.5")

### Dimensions



## Block Diagram



## Ordering Information

Em104-i230F-WT-E3825 R2.1	Intel® Atom™ Processor E3825 PC/104 WT CPU module, w/ RTL8111H, ALC888S, -40 ~ 85°C
Em104-i230F-WT-E3845 R2.1	Intel® Atom™ Processor E3845 PC/104 WT CPU module, w/ RTL8111H, ALC888S, -40 ~ 85°C

## Optional Accessories

CBK-11-230F-00	<ul style="list-style-type: none"> <li>Cable kit</li> <li>1 x SATA cable</li> <li>1 x Audio cable</li> <li>4 x COM port cables</li> <li>1 x KB &amp; MS Y-cable</li> <li>1 x USB cable</li> <li>1 x VGA cable</li> <li>2 x LAN cables</li> </ul>
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