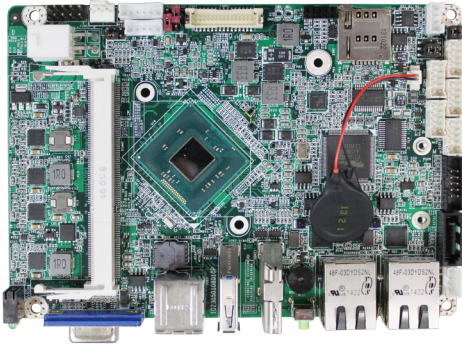




EmCORE-i230G

Intel® Atom™ Processor E3800 Family 3.5" Compact Board



Features

- Soldered onboard Intel® Atom™ Processor E3800 family
- Integrated Gigabit Ethernet
- LVDS, Analog RGB Port, HDMI port
- Support Dual Independent Displays
- Soldered Onboard eMMC (OEM Request)
- **Extended Operating Temp.: -20 ~ 70°C**
- **Wide Range Operating Temp.: -40 ~ 85°C (WT series)**

System

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

I/O

Super IO Chipset	Fintek F71869ED
Serial Port	2 x COM ports support RS-232/485 selectable
USB Port	6 x USB 2.0 ports 1 x USB 3.0 port
Digital I/O	8-bit programmable Digital Input/Output

Expansion Bus	1 x Mini-card socket
	1 x Micro-SDXC socket (supports SDXC card SD 3.0 only)
	1 x Micro SIM socket

Storage	1 x Serial ATA port with 300MB/s HDD transfer rate
	1 x CFast socket

Ethernet Chipset	Soldered onboard 4GB/8GB/16GB eMMC 4.5 (OEM request)
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Ethernet Chipset	2 x Realtek® RTL8111E PCIe GbE controllers
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Audio	Realtek ALC662 HD Audio CODEC, MIC-in/ Line-out/Line-in
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Display

Graphic Chipset	Integrated Intel® Gen 7 Graphics
Graphic Interface	HDMI: Vertical HDMI connector
	LCD: Dual Channel 24-bit LVDS, resolution up to 1024 x 768
	Analog RGB that supports resolution up to 2048 x 1536

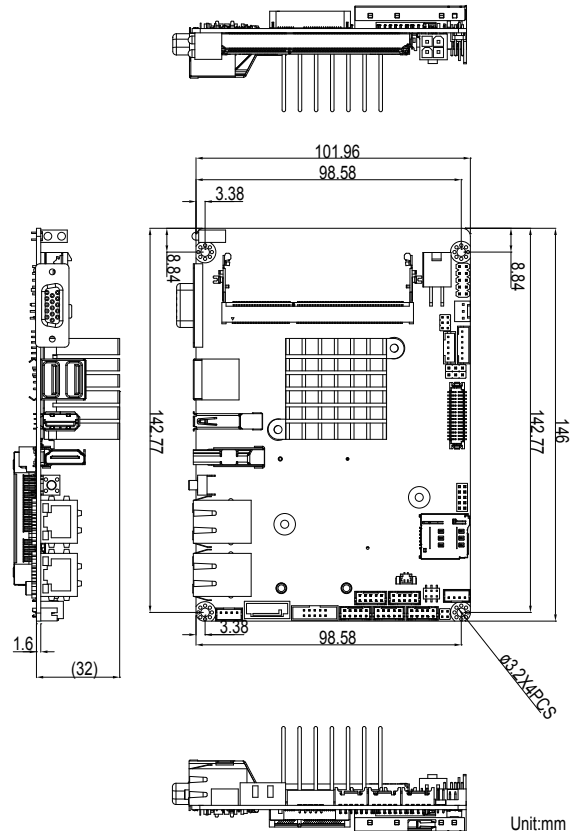
OS Support

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

Mechanical & Environmental

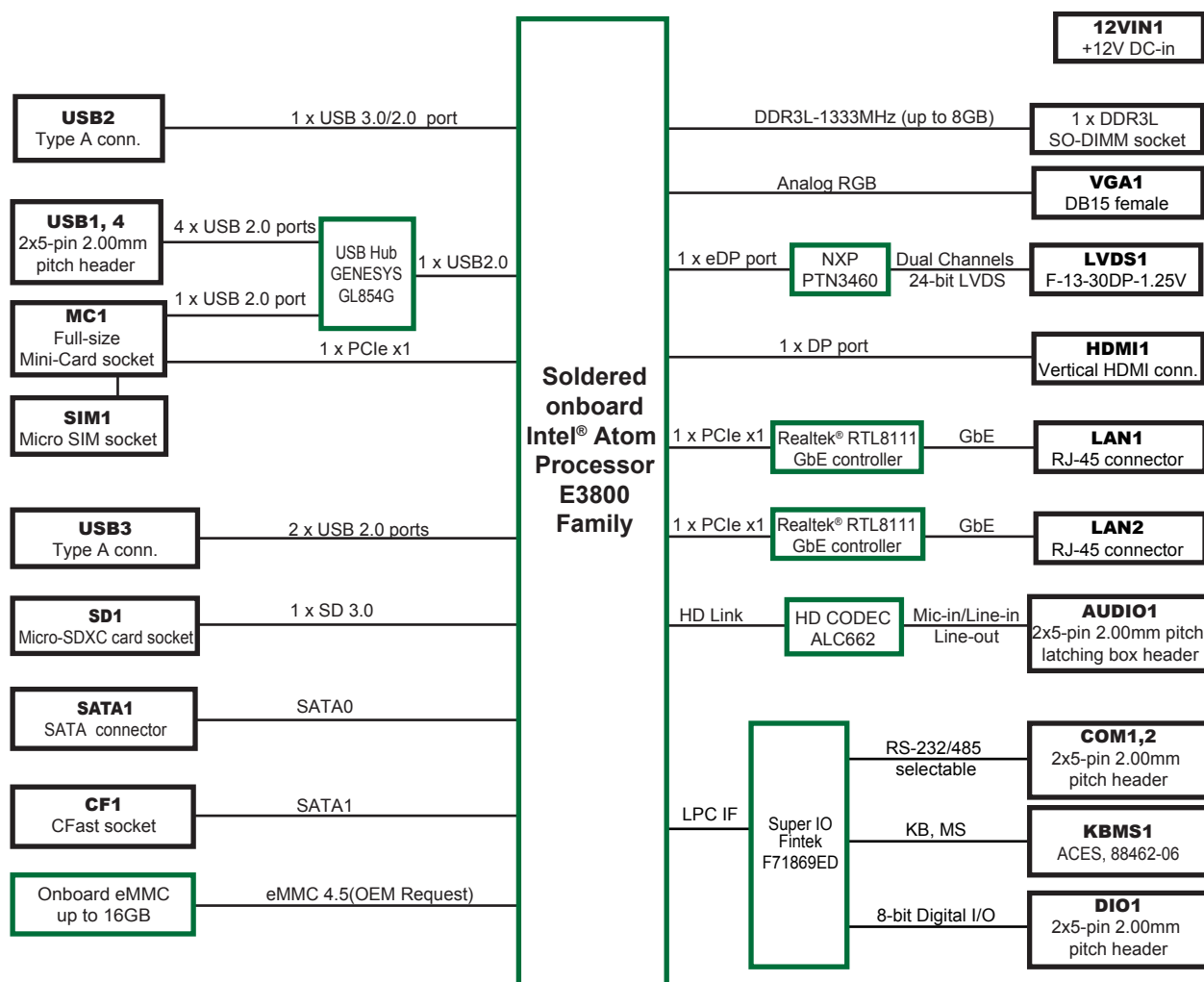
Power Requirement	+12V DC
Power Consumption	0.83A@+12V (E3845)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F) -40 ~ 85°C (-40 ~ 185°F, WT series)
Operating Humidity	10%~95% @ 70°C (non-condensing) 10%~95% @ 85°C (non-condensing, WT series)
Dimensions (L x W)	146 x 102 mm (5.7" x 4.0")

Dimensions





Block Diagram



Ordering Information

EmCORE-i230G-E3825	Intel® Atom™ Processor E3825 3.5" Compact Board
EmCORE-i230G-WT-E3825 (BTO)	Wide range temperature Intel® Atom™ Processor E3825 3.5" Compact Board
EmCORE-i230G-E3845	Intel® Atom™ Processor E3845 3.5" Compact Board
EmCORE-i230G-WT-E3845(BTO)	Wide range temperature Intel® Atom™ Processor E3845 3.5" Compact Board

Optional Accessories

CBK-08-230G-00	Cable kit 1 x AUDIO cable 2 x COM port latching cables 1 x Keyboard & mouse latching y-cable 1 x SATA cable 1 x SATA power cable 2 x USB cable
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