

# EmCORE-i230G

Intel® Atom™ Processor E3800 Family 3.5" Compact Board



## Features

- Support Intel® Atom™ Processor E3800 family
- Dual Gigabit Ethernet Ports
- LVDS, Analog RGB Port, HDMI port
- Support Dual Independent Displays
- Soldered Onboard eMMC (OEM request)
- **Wide Range Operating Temp.: -40 ~ 85°C**

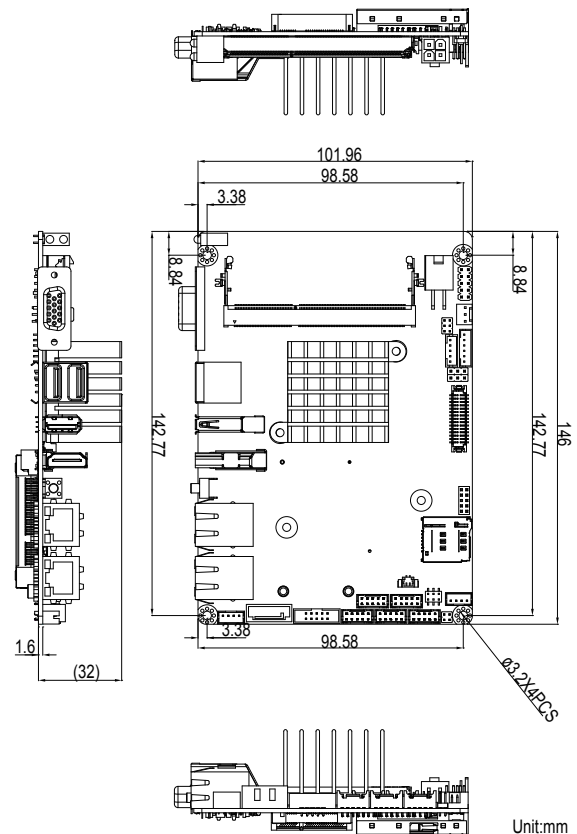
## System

CPU	Solderd onboard Intel® Atom™ Processor E3800 family E3825 1.33GHz or E3845 1.91GHz
Memory	1 x DDR3L SO-DIMM socket, supporting up to 8GB 1333/1600 MT/s SDRAM
BIOS	Insyde BIOS
Watchdog Timer	1~255 levels reset
<b>I/O</b>	
Super IO Chipset	Fintek F71869ED
Serial Port	2 x RS-232/485 selectable
Keyboard & Mouse	6-pin wafer connector for PS/2 keyboard/ mouse via Y-cable
USB 2.0	6 x USB 2.0 ports
USB 3.0/2.0	1 x USB 3.0/2.0 port
Expansion	1 x Mini-Card socket 1 x Micro-SDXC socket 1 x micro SIM socket
Storage	1 x Serial ATA ports with 300MB/s HDD transfer rate 1 x CFast socket 4GB/ 8GB/ 16GB eMMC 4.5 (OEM request)
Ethernet Chipset	2 x Realtek® RTL8111E PCIe GbE controllers
Digital I/O	8-bit Programmable
Audio	Realtek® ALC662 5.1 Channel HD Audio CODEC, MIC-in/ Line-out/Line-in
<b>Display</b>	
Graphic Chipset	Integrated Intel® HD Graphics
Graphic Interface	Analog RGB with resolution up to 2048x1536, HDMI LVDS: Dual Channels 24-bit LVDS, with resolution up to 1920x1200
<b>OS Support</b>	
Windows	Windows 7 32/64-bit, Windows 8.1 32/64-bit
Linux	Ubuntu

## Mechanical & Environmental

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

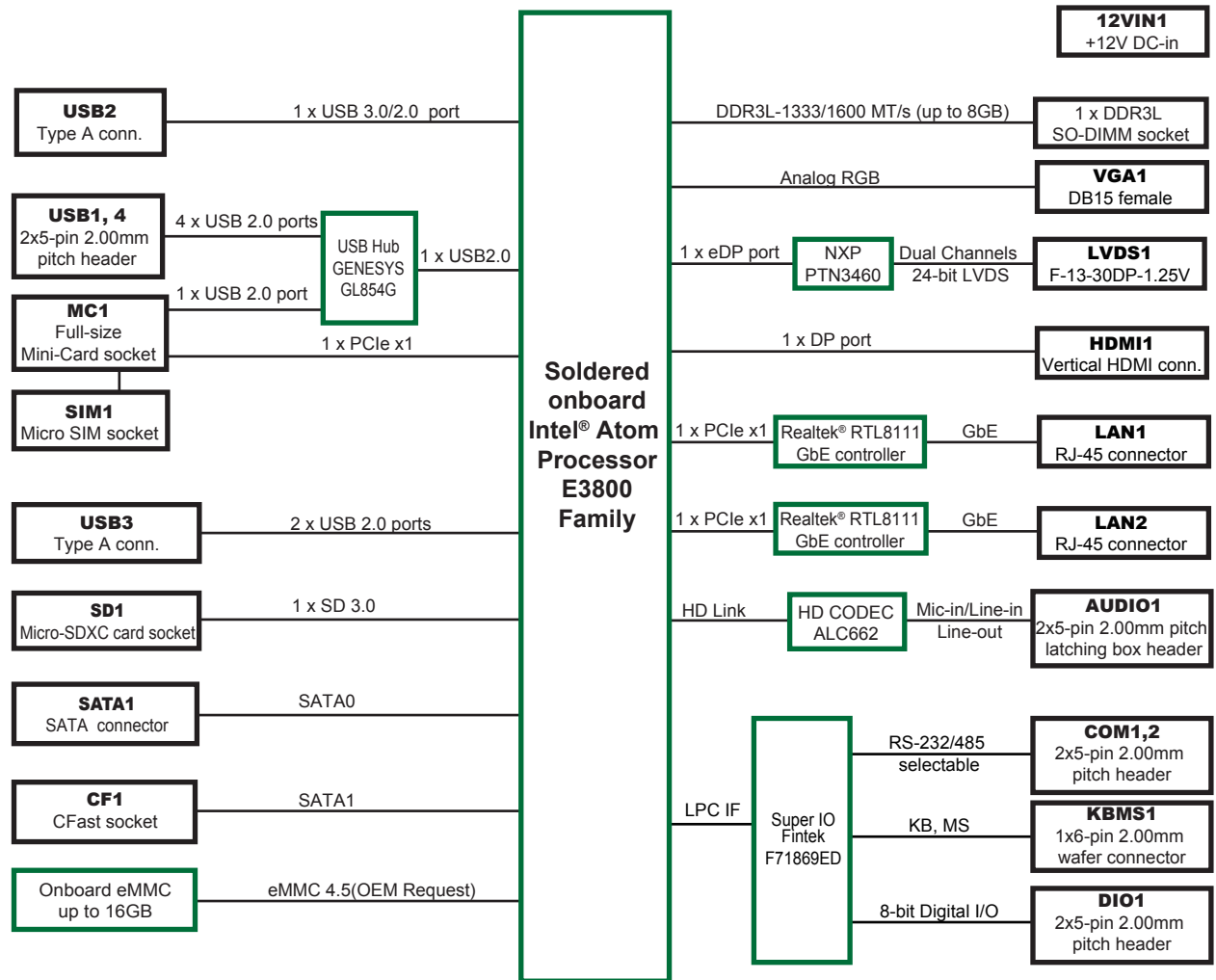
## Dimensions



Unit:mm



## Block Diagram



## Ordering Information

EmCORE-i230G-E3825	Intel® Atom™ Processor E3825 3.5" compact board with CFast/ micro SIM socket
EmCORE-i230G-E3845	Intel® Atom™ Processor E3845 3.5" compact board with CFast/ micro SIM socket

## Optional Accessories

CBK-08-230G-00	<ul style="list-style-type: none"> <li>Cable kit</li> <li>1 x Audio cable</li> <li>2 x Serial port latching cables</li> <li>1 x KB/MS latching Y-cable</li> <li>1 x SATA cable</li> <li>1 x SATA power cable</li> <li>2 x USB cable</li> </ul>
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