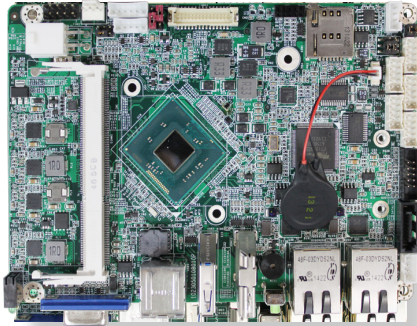




EmCORE-i230G

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)**

Mainboard & Chassis

System

CPU	Soldered 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

I/O

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 (supports SDXC card SD 3.0 only) 1 x micro SIM socket

Storage

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

Display

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

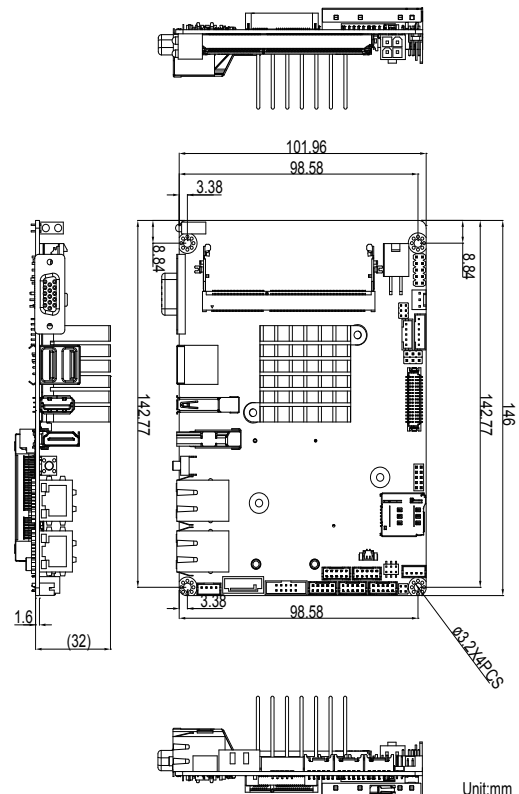
OS Support

Windows 7 32/64-bit, Windows 8.1 32/64-bit
Windows 10 IoT
Linux: Ubuntu

Mechanical & Environmental

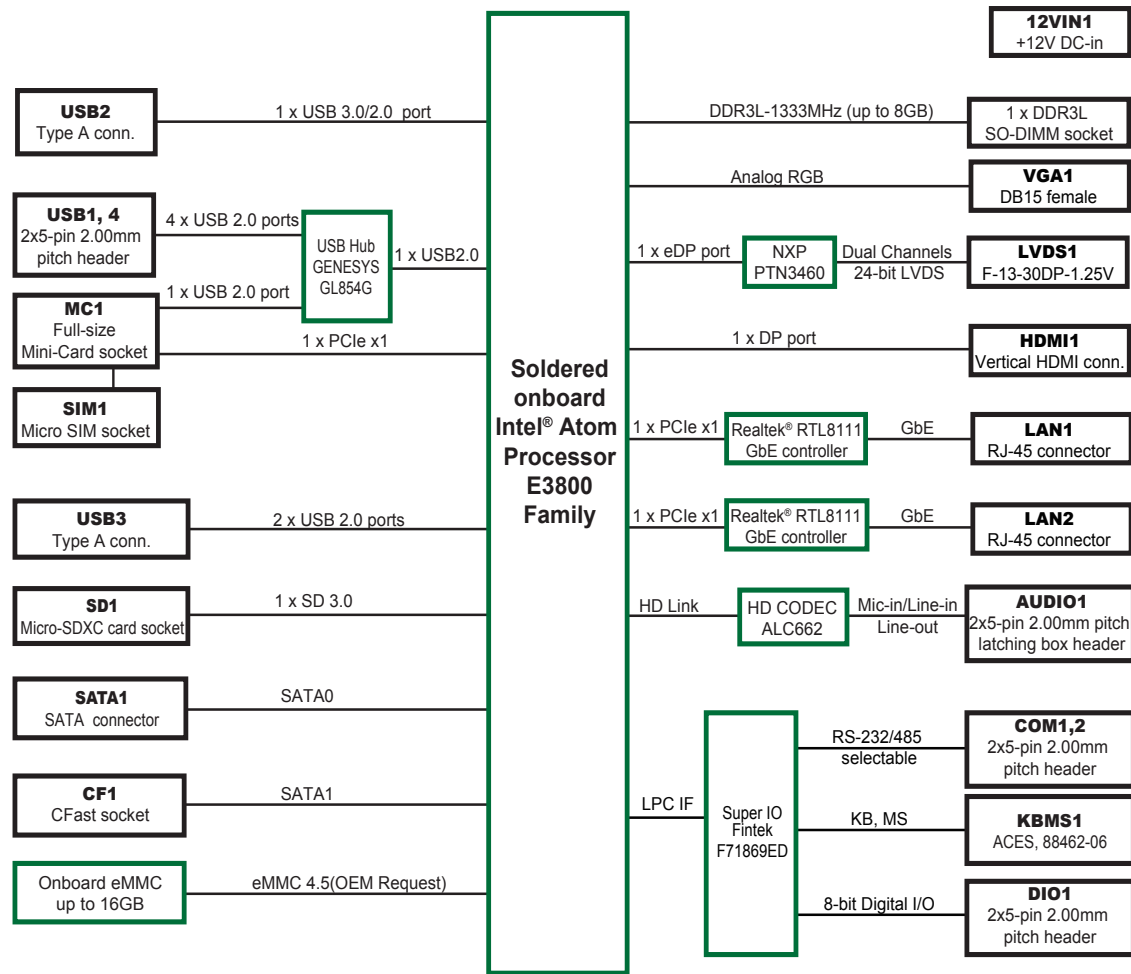
Power Requirement	DC 12V
Power Consumption	0.83A@+12V with E3845 (Typical)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10%~95% @ 85°C (non-condensing)
Dimensions (L x W)	146 x 102 mm (5.7" x 4.0")

Dimensions





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	Cable kit 1 x Audio cable 2 x Serial port latching cables 1 x KB/MS latching Y-cable 1 x SATA cable 1 x SATA power cable 2 x USB cable
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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660