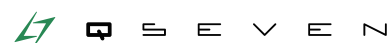
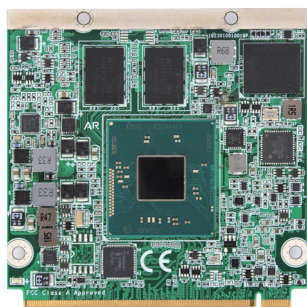


EmQ-i2301



Intel® Atom E3800 series processor Qseven™ CPU Module



Features

- **Fanless Design**
- Soldered Onboard Intel® Atom E3800 series SoC Processor
- Intel i210IT PCIe GbE controller
- Soldered Onboard 16GB eMMC
- Dual Channels 24-bit LVDS, DDI Port
- **Extended Operating Temp.: -20 ~ 70°C**

System

CPU/ Chipset	Soldered onboard Intel® Atom E3825 1.33GHz or E3845 1.91GHz SoC Processor
Memory	Soldered onboard 2GB / 4GB DDR3L SDRAM
BIOS	Insyde UEFI BIOS
Watchdog Timer	1~255 levels reset

I/O

USB Port	8 x USB 2.0 ports
Expansion Bus	3 x PCIe x1 lanes
Storage	2 x Serial ATA ports Soldered onboard 16GB eMMC (Optional)
Ethernet Chipset	1 x Intel® i210IT PCIe GbE controller
SDIO	Supports SDIO
Audio	HD Audio Link

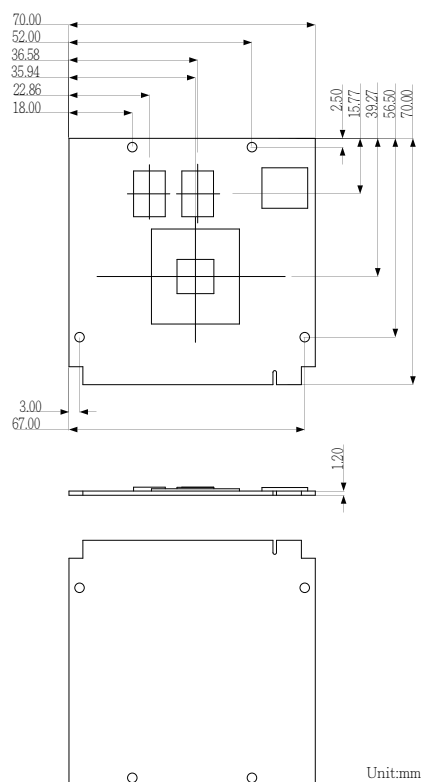
Display

Graphics Chipset	SoC Integrated Intel® Gen7 graphic LCD: Dual Channel 24-bit LVDS, resolution up to 1920x1200
Graphics Interface	Support Analog RGB signals (via Qseven GF reserved pin) 1 x DDI port

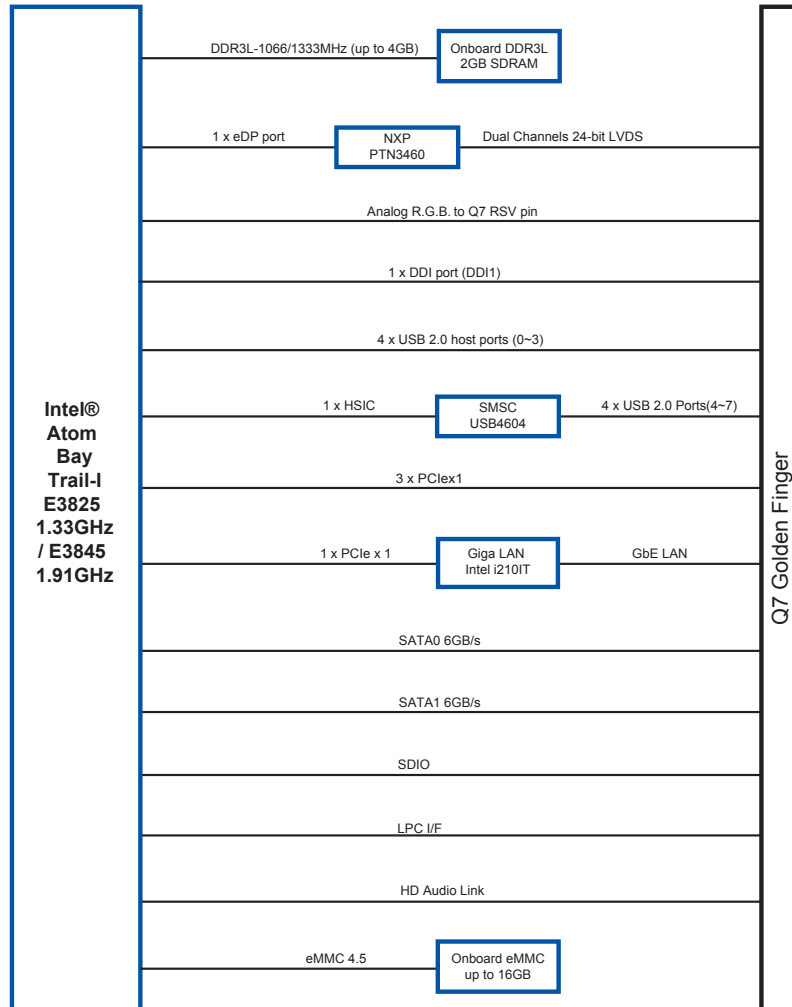
Mechanical & Environmental

Power Requirement	5V
Power Consumption	0.93A@+12V with E3825 (Typical)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimension (L x W)	70 x 70 mm (2.76" x 2.76")

Dimensions



Block Diagram



Ordering Information

EmQ-i2301-E3825-2G	Intel® Atom™ Bay Trail-I E3825 Qseven™ CPU module w / 2GB memory soldered on module
EmQ-i2301-E3845-2G	Intel® Atom™ Bay Trail-I E3845 Qseven™ CPU module w / 2GB memory soldered on module
EmQ-i2301-E3825-4G(BTO)	Intel® Atom™ Bay Trail-I E3825 Qseven™ CPU module w / 4GB memory soldered on module
EmQ-i2301-E3845-4G(BTO)	Intel® Atom™ Bay Trail-I E3845 Qseven™ CPU module w / 4GB memory soldered on module
EmQ-i2301D-E3825-2G(BTO)	Intel® Atom™ Bay Trail-I E3825 Qseven™ CPU module w / eMMC16GB and 2GB memory soldered on module
EmQ-i2301D-E3845-2G(BTO)	Intel® Atom™ Bay Trail-I E3845 Qseven™ CPU module w / eMMC16GB and 2GB memory soldered on module
EmQ-i2301D-E3825-4G(BTO)	Intel® Atom™ Bay Trail-I E3825 Qseven™ CPU module w / eMMC16GB and 4GB memory soldered on module
EmQ-i2301D-E3845-4G(BTO)	Intel® Atom™ Bay Trail-I E3845 Qseven™ CPU module w / eMMC16GB and 4GB memory soldered on module

Optional Accessories

HS-0662-F1	Heat spreader
HS-0000-W3	Universal evaluation heatsink kit for Qseven CPU module (70x70x30mm)
PBQ-3000 R1.2	Qseven™ EPIC evaluation board
SCDB-5291	Battery Charger DB
CBK-06-3000-00	Cable kit • 1 x USB cable • 1 x USB2 cable • 2 x Serial port cables • 1 x SATA cable • 1 x SATA power cable

Mouser Electronics

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