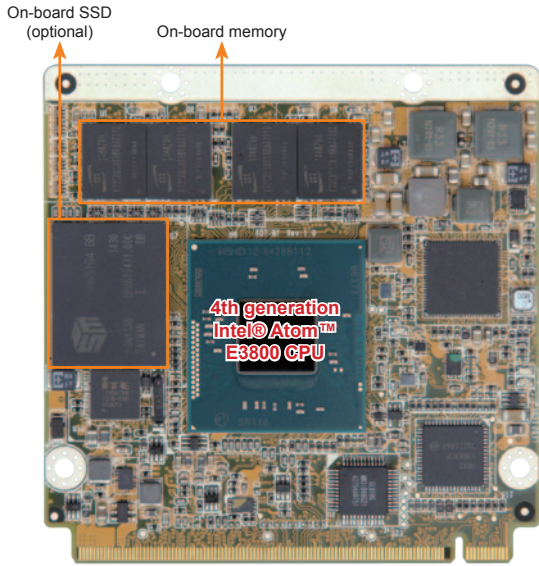
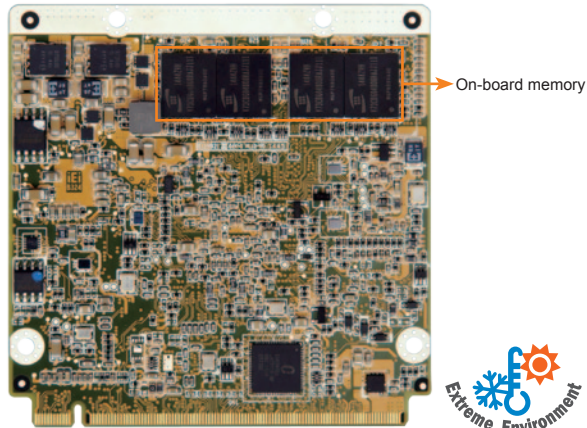


iQ7-BT

Qseven Rev. 2.0 module supports 4th generation Intel® Atom™ Processor, LVDS, DDI, GbE, SATA 3Gb/s, USB 3.0, SDIO, Audio, -40°C~85°C and RoHS



Bottom side



New



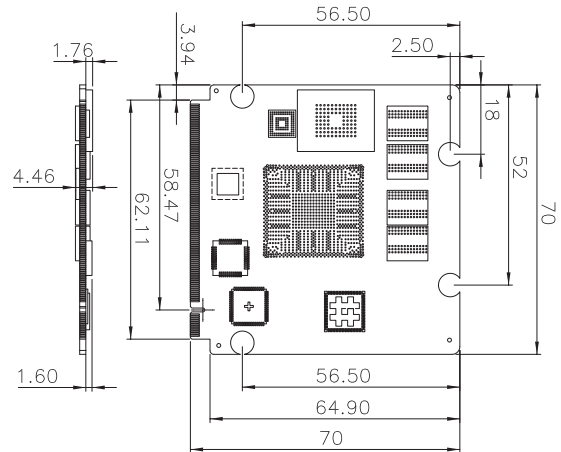
Specifications

- ◆ CPU
 - Intel® Atom™ E3845 on-board SoC (1.91GHz, quad-core, 2MB cache, TDP=10W)
 - Intel® Atom™ E3827 on-board SoC (1.75GHz, dual-core, 1MB cache, TDP=8W)
 - Intel® Atom™ E3826 on-board SoC (1.46GHz, dual-core, 1MB cache, TDP=7W)
 - Intel® Atom™ E3825 on-board SoC (1.33GHz, dual-core, 1MB cache, TDP=6W)
 - Intel® Atom™ E3815 on-board SoC (1.46GHz, single-core, 512KB cache, TDP=5W)
 - Intel® Celeron® J1900 on-board SoC (2GHz, quad-core, 2MB cache, TDP=10W)
 - Intel® Celeron® N2930 on-board SoC (1.83GHz, quad-core, 2MB cache, TDP=7.5W)
 - Intel® Celeron® N2807 on-board SoC (1.58GHz, dual-core, 2MB cache, TDP=4.3W)
- ◆ Memory
 - 2GB soldered down 1066/1333 MHz DDR3L memory (up to 4GB)
- ◆ BIOS
 - UEFI BIOS
- ◆ Graphics Engine
 - Intel® HD Graphics Gen 7 Engines with 4 execution units, supports DX11.1, OpenGL 4.2 and OpenCL 1.2
- ◆ Display Output
 - Dual independent display
 - 1 x 18/24-bit dual-channel LVDS by CH7511B DP to LVDS converter (up to 1920x1200@60Hz)
 - 1 x DDI (DP/HDMI, max. resolution 2560x1600/1920x1080)
- ◆ Ethernet
 - Intel® I210 GbE controller
- ◆ Embedded Controller
 - ITE IT8528E/FX
- ◆ Storage
 - 2 x SATA 3Gb/s signal to baseboard
 - Optional soldered down 4GB SSD (SATA port 2)
- ◆ I/O Interface
 - 6 x USB 2.0 signal to baseboard
 - 1 x USB 3.0 signal to baseboard
- ◆ Audio
 - High-definition Audio interface to baseboard
- ◆ SMBus
 - Yes, to baseboard
- ◆ I²C
 - Yes, to baseboard
- ◆ LPC
 - Yes, to baseboard
- ◆ SDIO
 - One 8-bit SDIO 2.0, to baseboard
- ◆ SPI
 - Yes, to baseboard
- ◆ Serial port
 - One serial port to baseboard (form EC)
- ◆ Expansion
 - 3 x PCIe x1 signal to baseboard
- ◆ Watchdog Timer
 - Software programmable support 1~255 sec. system reset (form EC)
- ◆ Power Consumption
 - 3.3V@0.13A, 5V@0.13A, 12V@1.35A, 5VS@0.12A (Intel® Atom™ E3845 CPU, 2GB on board)
- ◆ Operating Temperature
 - 40°C ~ 85°C
- ◆ Operating Humidity
 - 5% ~ 95%, non-condensing
- ◆ Dimensions
 - 70 mm x 70 mm
- ◆ Weight
 - GW: 300g / NW: 150g

Features

1. 22nm Intel® Atom™ on-board SoC supported
2. Qseven connector pinout according to Qseven Specification Revision 2.0
3. Supports 2GB 1066/1333 MHz DDR3L memory (4GB optional)
4. Optional soldered down 2GB~64GB SSD
5. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Dimensions (Unit: mm)



Packing List

| | |
|----------------------------------|------------------------------------|
| 1 x iQ7-BT single board computer | 1 x QIG (Quick Installation Guide) |
| 1 x Heatsink | 1 x Utility CD |

Ordering Information

| Part No. | Description |
|---------------------|--|
| iQ7-BT-E38451W2-R10 | Qseven Rev. 2.0 module supports Intel® Atom™ processor E3845 (quad core, 10W), LVDS, DDI, GbE, SATA 3Gb/s, SDIO, USB 3.0, Audio, -40°C~85°C and RoHS |
| iQ7-BT-E38251W2-R10 | Qseven Rev. 2.0 module supports Intel® Atom™ processor E3825 (dual core, 6W), LVDS, DDI, GbE, SATA 3Gb/s, SDIO, USB 3.0, Audio, -40°C~85°C and RoHS |
| iQ7-BT-E38451-R10 | Qseven Rev. 2.0 module supports Intel® Atom™ processor E3845 (quad core, 10W), LVDS, DDI, GbE, SATA 3Gb/s, SDIO, USB 3.0, Audio, and RoHS |
| iQ7-BT-E38251-R10 | Qseven Rev. 2.0 module supports Intel® Atom™ processor E3825 (dual core, 6W), LVDS, DDI, GbE, SATA 3Gb/s, SDIO, USB 3.0, Audio, and RoHS |
| iQ7-DB-MATX-R10 | Baseboard for Qseven Rev. 2.0 module |

Note: Models with other CPUs not listed in the table are requested by MOQ - 100 pcs/lot.