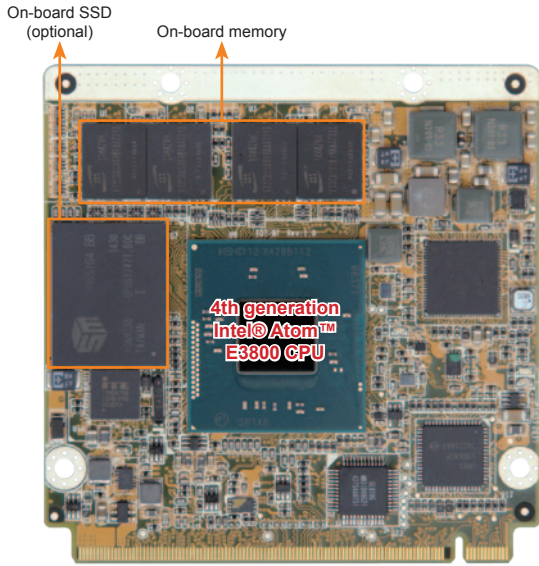
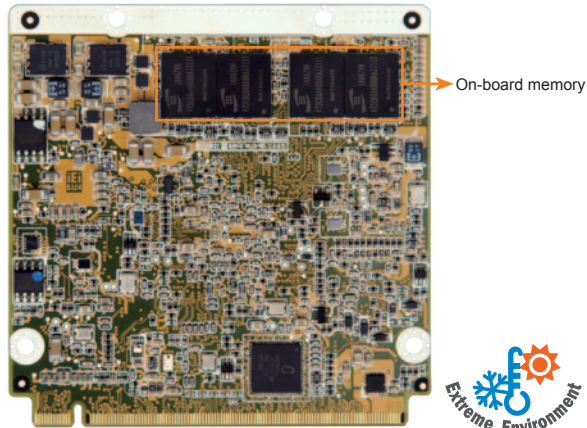


# iQ7-BT

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**



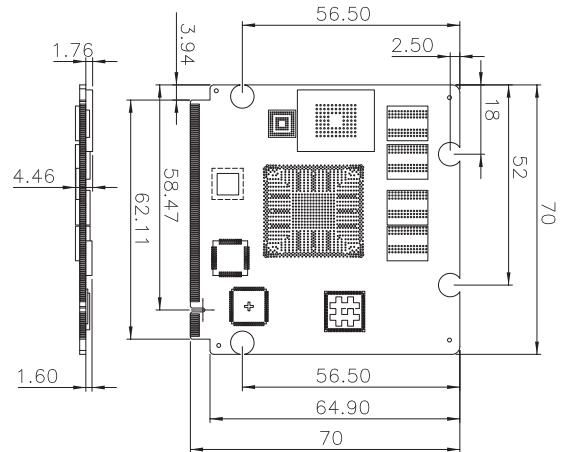
## Specifications

- ◆ 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
- ◆ I<sup>2</sup>C
  - 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.