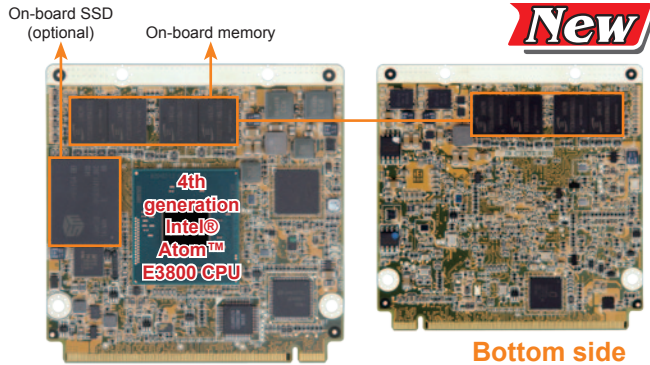


iQ7-BT

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



Features

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

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
- ◆ I/O Interface
 - 6 x USB 2.0 signal to baseboard
 - 1 x USB 3.0 signal to baseboard
- ◆ Storage
 - 2 x SATA 3Gb/s signal to baseboard
 - Optional soldered down 4GB SSD (SATA port 2)
- ◆ 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, 5VSB@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

Packing List

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

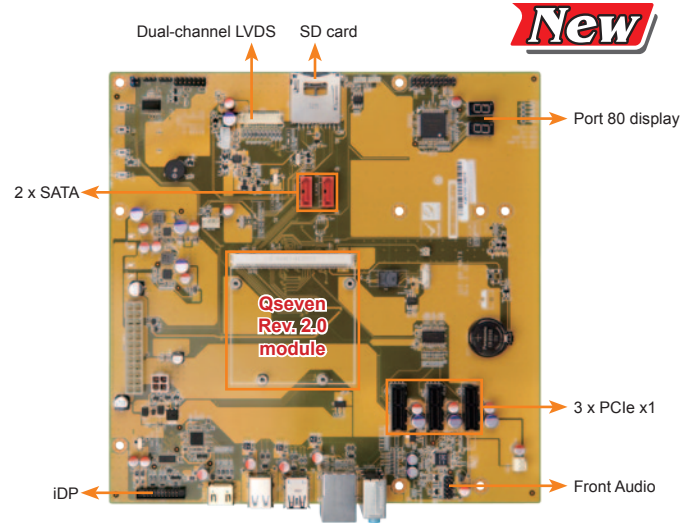
Ordering Information

Part No.	Description
iQ7-BT-E38451W2-R10	Qseven Rev. 2.0 module supports Intel® Atom™ processor E3845 (quad core, 10W), on-board 2GB DDR3L, 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), on-board 2GB DDR3L, 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), on-board 2GB DDR3L, 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), on-board 2GB DDR3L, 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.

iQ7-DB-MATX

Baseboard for Qseven Rev. 2.0 module



Features

- mATX form factor baseboard for Qseven Rev. 2.0 module
- Supports three PCIe x1
- 18/24-bit dual-channel LVDS
- Supports iRIS-2400/iRIS-2100

Specifications

- ◆ COM Express Type
 - mATX form factor baseboard for Qseven Rev. 2.0 module
- ◆ Display Interfaces
 - 1 x LVDS
 - 1 x HDMI
 - 1 x iDP
- ◆ Audio
 - Realtek ALC662 HD Audio Codec (Line-in, Line-out, Mic)
- ◆ Internal I/O Interface
 - 1 x LPC
 - 1 x SD card socket
 - 2 x SATA port
 - 3 x PCIe x1
- ◆ Rear IO
 - 1 x Audio jack (Line-in, Line-out, Mic)
 - 1 x HDMI
 - 1 x USB 3.0
 - 5 x USB 2.0
 - 1 x RJ-45
- ◆ Front Audio
 - 1 x Front audio (2x5 pin)
- ◆ TPM
 - 1 x TPM (2x10 pin)
- ◆ Port 80 Display
 - 2 x 7-segment display
- ◆ Front Panel
 - 1 x Front panel (Power LED, HDD LED, Buzzer speaker, Power Button, Reset Button)
- ◆ I²C
 - 3 x I²C (1x4 pin)
- ◆ SMBus
 - 1 x SMBus (1x4 pin)
- ◆ Watchdog Timer
 - Software programmable, supports 1~255 sec. system reset
- ◆ Power Supply
 - ATX power supply, ATX/AT mode support
- ◆ Fan Connector
 - 1 x CPU smart fan (1x4 pin)
 - 1 x System fan (1x3 pin)
- ◆ Temperature
 - 40°C ~ 85°C
- ◆ Humidity
 - 5% ~ 95%, non-condensing
- ◆ Dimensions
 - 243.8 mm x 243.8 mm

Packing List

1 x Qseven® baseboard
1 x QIG

Ordering Information

Part No.	Description
iQ7-DB-MATX-R10	Baseboard for Qseven Rev. 2.0 module
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P