

SOM-AQ7BT



Intel® Atom™ E3800 series and N2807 Processor

Onboard DDR3L 2GB Memory

Gigabit Ethernet x 1

18/24-bit Single-Channel LVDS LCD/eDP, HDMI

High Definition Audio Interface

SATA x 2

2x USB2.0, 1x USB3.0,

GPIO 8-bit

3x PCI-Express ?x1?Lanes

Qseven "Q7" rev2.0, 70mm x 70mm

Measuring 70mm x 70mm, the AQ7-BT is a Qseven module with Qseven Rev.2.0 specification and equips Intel® Atom™ E3800 Series Processor SoC (and the N2807 Processor) with 2GB of onboard DDR3L memory.

It accommodates PCI-Express?x1?slots, SMBus, I2C bus, and SDIO interface for expansion; 18/24-bit single-channel LVDS and Digital Display Interface which can convert to DP/HDMI or other gital display format (may need certain bridge IC); Intel®'s I211/I210 for Ethernet (depending on SKU); and USB 3.0/2.0, SATA II, and serial ports for I/O.

Users may also acquire the ECB-970 carrier board separately for evaluating and testing the module.

Applications

Handheld Device

Test and Measure

Industrial automation

Specifications

SOM Type:

Microcontroller SODIMM Modules

Processor

Intel® Atom™ E3800 series and N2807 Processor

Clock Speed:

1.91 GHz

Real Time Clock:

Processor Misc.:

Intel® Atom™ E3800 Product Family/Celeron® N2000 Series SoC Processor

N2807: Dual Core 1.58 Ghz/ 5W

E3845: Quad Core 1.91 GHz/ 10W

E3825: Dual Core 1.33 GHz/ 8W

Memory

BIOS/ Bootloader:

AMI BIOS

Primary Flash:

Up to 8GB SSD

Memory Misc.:

2GB RAM standard, 4GB RAM optional

Primary I/O

8x GPIO

Disk Interface:

1x SATA

Video Out:

24-bit LVDS LCD

DP x 1

SPI:

1x SPI

Audio:

High definition audio interface

Ethernet:

Intel® I210IT 10/1000/1000Base-TX

USB:

1x USB 3.0 and 6x USB 2.0

Serial Ports:
2x COM
I2C:
1x I2C port
Watchdog:
Secondary I/O
USB 1 Port.
Keypad:
PS/2:
Analog on
A/D.
D/A:
Dimensions
Dimensions.
2.75 × 2.75 in
Form Factor:
Qseven
Power Requirements
Voltage.
5 V
Constant Busy Loop Current:
2 A
Environmental
Low Operating Temperature:
0 C
High Operating Temperature:
60 C
Upper Operating Humidity:
90%
Environmental Misc.:
Optional Operating Temperature for E3825 -40 °F ~ 185 °F (-40 °C ~ 80 °C)
Pricing
SOM-AQ7BT-001-R
AQ7-BT-A10-0001, Q7, N2807 2x1.58GHz, 2GB DDR3, 2xSATA, 1xUSB3, 6xUSB2, GbE, SPI, I2C, DDI, HDMI, LVDS
\$254.00
Order:
0
Parent Product:
SOM-AQ7BT
Base Product:
SOM-AQ7BT
SOM-AQ7BT-002-R
AQ7-BT-A10-0002, Q7, E3825 2x1.33GHz, 2GB DDR3, 8GB SSD, SATA, 1xUSB3, 6xUSB2, GbE, SPI, I2C, DDI, HDMI, LVDS
\$272.00
Order:
0
Parent Product:
SOM-AQ7BT
Base Product:
SOM-AQ7BT
SOM-AQ7BT-003-R
AQ7-BT-A10-0003, Q7, E3845 4x1.91Hz, 2GB, DDR3, 4GB SSD, SATA, 1xUSB3, 6xUSB2, GbE, SPI, I2C, DDI, HDMI, LVDS

\$389.00

Order:

0

Parent Product:

SOM-AQ7BT

Base Product:

SOM-AQ7BT

Non-Stock NCNR:

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