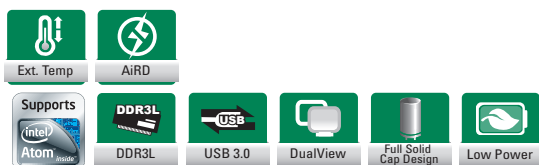


# Q7M310

Qseven Module with Intel® Atom® x5 and x7 Processor

## Features

- Intel® Atom® x5 and x7 processors (Apollo Lake)
- Onboard 4GB DDR3L memory (8GB optional)
- 4 lanes of PCI Express slot
- 2 SATA-600
- 2 USB 3.0 and 4 USB 2.0

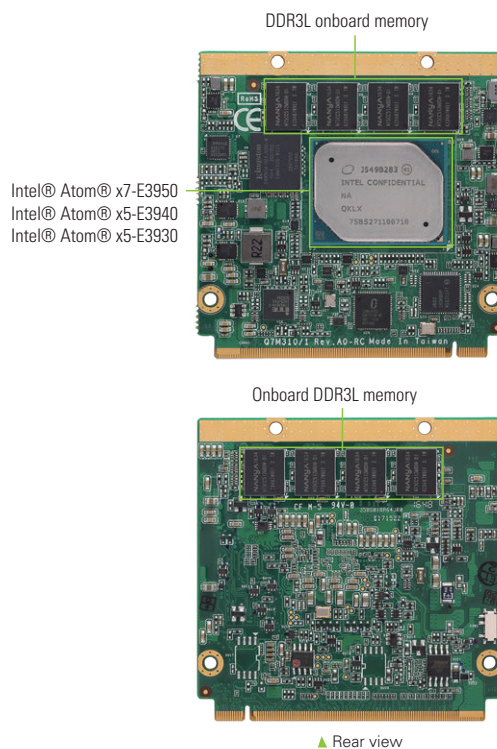


## Core System

CPU	Intel® Atom® x7-E3950 (2.0 GHz) Intel® Atom® x5-E3940 (1.8 GHz) Intel® Atom® x5-E3930 (1.8 GHz)
System Memory	4GB DDR3L memory onboard, up to 8GB (optional)
Chipset	SoC integrated
BIOS	AMI UEFI BIOS (Legacy Free)
SSD	eMMC 32GB (optional)
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	4 x PCIe x1 (3 x PCIe x1 if onboard LAN is supported)
Battery Lithium	N/A
Power Input	ATX: 5V, +5VSB AT: 5V
Dimensions	70 x 70 mm
Board Thickness	1.2 mm
Operating Temperature	Standard: -20°C to +70°C (-4°F to +158°F) Industrial: -40°C to +85°C (-40°F to +185°F)
Humidity	10% to 95% relative humidity, non-condensing

## I/O

SATA	2 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i210-IT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD link interface to baseboard for Codec
USB	2 x USB 3.0 4 x USB 2.0
Serial	1 x LPC (optional with GPIO) 1 x SPI 1 x TX/RX
TPM	N/A
SMBus	Yes
Others	1 x I <sup>2</sup> C 1 x SDIO
GPIO	4-CH in & 4-CH out
Smart Battery	Yes



## Display

Chipset	Intel® Gen 9 Graphics Engine Supports Gfx - DX11.1, OCL1.2, OGL 4.2
Display Interface	1 x DDI (DP, HDMI, DVI) 1 x LVDS; 18/24-bit dual channel (eDP optional)

## Packing List

Quick installation guide

## Ordering Information

Standard	
Q7M310-E3940+4GB (Ind.) (P/N : E38Q310101)	Qseven module with Intel® Atom® x5-E3940, 4G DRAM, DDI, LVDS, USB 3.0 and GbE LAN (Industrial temperature)
Q7M310-E3950+4GB (Ind.) (P/N : E38Q310102)	Qseven module with Intel® Atom® x7-E3950, 4G DRAM, DDI, LVDS, USB 3.0 and GbE LAN (Industrial temperature)
Q7M310-E3930+4GB (Ind.) (P/N : E38Q310104)	Qseven module with Intel® Atom® x5-E3940, 4G DRAM, DDI, LVDS, USB 3.0 and GbE LAN (Industrial temperature)
Q7M310-E3930+4GB (P/N : E38Q310105)	Qseven module with Intel® Atom® x5-E3930, 4G DRAM, DDI, LVDS, USB 3.0 and GbE LAN
Q7M310-E3940+4GB (P/N : E38Q310106)	Qseven module with Intel® Atom® x5-E3940, 4G DRAM, DDI, LVDS, USB 3.0 and GbE LAN
Q7M310-E3950+4GB (P/N : E38Q310107)	Qseven module with Intel® Atom® x7-E3950, 4G DRAM, DDI, LVDS, USB 3.0 and GbE LAN