



Features

- Onboard Intel® Atom™ x5-E3930, 1.8GHz or x7-E3950, 2.0GHz [i-Temp support]
- Onboard LPDDR4 memory
- 1x Intel I210IT PCI-E Gigabit LAN
- Supports TPM (2.0), eMMC5.0 (optional)
- Wide-range operating temperature

Specifications

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|------------------------|--|
| CPU Type | Intel® Atom™ QC x5/ E3930 (1.3 GHz~1.8GHz) Intel® Atom™ QC x7/ E3950 (1.6GHz~2.0GHz) |
| System Memory | Onboard memory, LPDDR4, Max 8GB |
| System Chipset | Integrated in Intel® SoC |
| BIOS | AMI |
| Watchdog Timer | 256 levels |
| SSD | eMMC 5.0 up to 32GB (optional) |
| H/W Monitor | Yes |
| Expansion Slot | 4x PCI-E(x1) |
| VGA Controller | Intel® SoC integrated Gen9-LP graphics |
| VGA Memory | Shared memory |
| Display Interface | Supports 1x DDI port, 1x eDP or 1x dual-channel LVDS (By option) |
| LAN Controller | 1x Intel® I211IT PCI-E Gigabit LAN |
| LAN Connector | 1x RJ45 on carrier board (IP416) |
| I/O Chipset | Fintek F81804U-I 1x COM port (RX/TX/RTS/CTS only) |
| USB | 3x USB 3.0, derived from Qseven CPU module 4x USB 2.0, derived from Qseven CPU module |
| Serial ATA | 2x SATA III via carrier board |
| Audio | Intel® Atom™ SoC built-in HD audio controller |
| Others | TPM (2.0) , SD, from SoC CPU |
| Dimensions | 70mm x 70mm (2.75" x 2.75 ") |
| Max. Power Requirement | Intel® Atom™ E3950 1.6GHz w/ 8GB memory, DDR4 1600 +12V: 1.7121A |
| Operating Temperature | -40°C ~ 85°C (-40°F~185°F) |
| Storage Temperature | -40°C ~ 90°C (-40°F ~ 194°F) |
| Relative Humidity | 90% (non-condensing @60°C) |

Ordering Information

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|----------------|---|
| IBQ800-X7LVE8G | Qseven CPU module with Intel® Atom™ E3950 (2.0GHz), eMMC32GB, 8GB memory on board, LVDS support |
| IBQ800-X5LVE8G | Qseven CPU module with Intel® Atom™ E3930 (1.8GHz), eMMC32GB, 8GB memory on board, LVDS support |
| IBQ800-X5LVE | Qseven CPU module with Intel® Atom™ E3930 (1.8GHz), eMMC32GB, 4GB memory on board, LVDS support |
| IBQ800-X5 | Qseven CPU module with Intel® Atom™ E3930 (1.8GHz), 4GB memory on board, eDP support |
| IP416 | Qseven (R2.1) carrier board |

Dimensions and Drawing

