



Features

- Onboard Intel® Atom™ E3845/E3827/E3815 SoC, 1.91GHz/1.75GHz/1.46GHz
- 2x DDR3L-1333 SO-DIMM, Max. 8GB
- Supports VGA, DisplayPort and 24-bit dual-channel LVDS
- 2x Intel® I210IT PCI-E Gigabit LAN
- Watchdog timer, Digital I/O, mSATA, iSMART
- 3x USB 2.0, 1x USB 3.0, 2x COM, 2x SATA II, 1x MicroSD slot
- 2x Mini PCI-E slots (1x full-size, 1x half-size)
- Wide-range operating temperature



IB897 with Heat spreader



IB897 with Heatsink

Specifications

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|--------------------------|--|
| CPU | Intel® Atom™ QC E3845 (1.91GHz, 2MB cache) Intel® Atom™ DC E3827 (1.75GHz, 1MB cache) 2nd Atom™ SC E3815 (1.46GHz, 512k cache) |
| PCH | Integrated in Intel® Atom™ SoC |
| Memory Types | 2x DDR3L-1333 SO-DIMM, Max 8GB (Non-ECC) 1x DDR3L-1333 SO-DIMM, (IB897-215 only) |
| BIOS | AMI |
| Watchdog Timer | 256 levels |
| H/W Monitor | Yes |
| Storage Device Interface | 1x mSATA, 1x MicroSD |
| Mini Type Slots | 2x Mini PCI-E (1x full-size, 1x half-size) |
| Graphics Controller | Intel® Atom™ SoC integrated Gen7 4EUs graphics |
| Video Output | Supports CRT, DisplayPort, and 24-bit dual-channel LVDS |
| Ethernet | 2x Intel® I210IT PCI-E Gigabit LAN |
| I/O Chip | Nuvoton NCT5523D |
| Serial Port | 1x RS232/422/485 (jumperless selection) 1x RS232 |
| USB 2.0 | 1x USB 2.0 on board 2x USB 2.0 via pin header |
| USB 3.0/ 3.1 | 1x USB 3.0 on board |
| Serial ATA | 2x SATA III |
| Audio | Intel® Atom™ SoC built-in HD Audio controller + Realtek ALC269Q HD codec w/ class-D amplifier |
| TPM | N/A |
| Others | Digital I/O, +9V~ +30V DC-In, iSMART |
| Dimensions (L x W) | 102mm x 147mm (4" x 5.8") |
| Power Consumption | Intel® Atom™ E3845 @ 1.91GHz w/ 2x Transcend 2GB DDR3L-1600 + 12V: 1.57A |
| 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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| IB897-I45 | Intel® Atom™ E3845(1.91GHz) 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS, mSATA, iSMART |
| IB897-I27 | Intel® Atom™ E3827(1.75GHz) 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS, mSATA, iSMART |
| IB897-I15 | Intel® Atom™ E3815(1.46GHz) 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS, mSATA, iSMART |
| IB897-I45P | Intel® Atom™ E3845(1.91GHz) 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS, mSATA, iSMART, pin-header type for power button and LED |
| IB897-I27P | Intel® Atom™ E3827(1.75GHz) 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS, mSATA, iSMART, pin-header type for power button and LED |
| HSIB897-BGA | Heatsink for IB897 |
| HSIB897-BGA-1 | Heat spreader for IB897 |
| IB76 | Cable kit w/ USB, COM, power, SATA + power, VGA |

Dimensions and Drawing

