



Features

- Onboard Intel® Pentium® N4200 @ 2.5GHz or Celeron® N3350 @ 2.4GHz
- Onboard Intel® Atom™ x7-E3950 @ 2.0GHz [i-Temp support]
- 1x DDR3L-1866 SO-DIMM, Max. 8GB
- Supports HDMI 1.4b, 2x 24-bit dual channel LVDS
- 2x Intel® I210IT PCI-E Gigabit LAN or I211AT PCI-E Gigabit LAN
- Watchdog timer, Digital I/O, mSATA, EuP/ErP
- 4x USB 3.0, 2x USB 2.0, 4x COM, 2x SATA III
- 1x Mini PCI-E slot (full-size), 1x Mini PCI-E slot (half-size)
- Wide-range operating temperature

System

CPU	Intel® Atom™ QC x7/ E3950 (1.6~2.0 GHz) Intel® Pentium® QC N4200 (1.1~2.5 GHz) Intel® Celeron® DC N3350 (1.1~2.4 GHz)
System Memory	1x DDR3L SO-DIMM, Max 8GB (Non-ECC)
System Chipset	Integrated in Intel SoC
BIOS	AMI
Watchdog Timer	256 levels
SSD	1x mSATA (Via Full-size Mini PCI-E)
H/W Monitor	Yes
Expansion Slots	2x Mini PCI-E (1x Full size, 1x half-size)

Graphics

VGA Controller	Intel SoC integrated Gen9 18EUs graphics
VGA Memory	Share memory
Display Interface	Supports HDMI(1.4b), 2x dual channel LVDS

LAN

Controller	IB818F-I50 2x Intel I210IT PCI-E Gigabit LAN IB818F-420/335: 2x Intel I211AT PCI-E Gigabit LAN
Connector	2x RJ-45

Multi I/O

I/O Chipset	Fintek F81964D-I 1x RS232/422/485(jumperless selection) 3x RS232, 2x SATA III
USB	4 ports on board (USB3.0) 2 ports via pin-header (USB2.0)
Audio	Intel® APL SoC built-in HD Audio controller + Realtek ALC283 Codec w/class-D speaker amplifier
Others	Digital I/O, +12V ~ +24V DC-in, EuP/ErP, Wide temperature

Mechanical and Environmental

Dimensions	102 x 147 mm (4" x 5.8")
Max. Power Requirement	TBD
Operating Temperature	N4200/N3350: 0°C~+60°C (32°F~140°F) E3950:-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

IB818F-I50	Intel Atom™ x7/ E3950 (1.6GHz~2.0GHz) 3.5-inch Disk Size SBC w/ dual GbE LAN, HDMI, 2 x LVDS (24-bit LVDS Dual channel), Eup/ErP, 12~24V DC-in, wide temperature.
IB818F-420	Intel® Pentium® N4200 (1.1GHz~2.5GHz) 3.5-inch Disk Size SBC w/ dual GbE LAN, HDMI, 2x LVDS (24-bit LVDS Dual channel), Eup/ErP, 12~24V DC-in
IB818F-335	Intel® Pentium® N3350 (1.1GHz~2.4GHz) 3.5-inch Disk Size SBC w/ dual GbE LAN, HDMI, 2x LVDS (24-bit LVDS Dual channel), Eup/ErP, 12~24V DC-in
HSIB818-I	Heat sink for IB818F-I50
HSIB818	Heat sink for IB818F-420/ IB818F-335

Dimensions and Drawing

