



IB818 with Heat spreader

IB818 with Heatsink

## Features

- Onboard Intel® Atom® x7-E3950/ x5-E3940/ x5-E3930 SoC [i-Temp support]
- Onboard Intel® Pentium® N4200/ Celeron® N3350/ J3455
- 1x DDR3L-1866 SO-DIMM, Max. 8GB
- Supports HDMI 1.4b, **Dual LVDS(18/24bit)**
- Dual Intel® 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 in certain models

## Specifications

CPU	Intel® Atom® QC x7/ E3950 (1.6~2.0 GHz) Intel® Atom® QC x5/ E3940 (1.6 GHz~1.8GHz) Intel® Atom® DC x5/ E3930 (1.3 GHz~1.8GHz) Intel® Pentium® QC N4200 (1.1~2.5 GHz) Intel® Celeron® DC N3350 (1.1~2.4 GHz) Intel® Celeron® QC J3455 (1.5~2.3 GHz)
PCH	Integrated in Intel® SoC
Memory Type	1x DDR3L SO-DIMM, Max 8GB (Non-ECC)
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	1x mSATA (Via full-size Mini PCI-E)
Mini Type Slots	2x Mini PCI-E (1x full-size, 1x half-size)
Graphics Controller	Intel® SoC integrated Gen9 18EUs graphics
Video Output	Supports HDMI(1.4b), Dual LVDS (18/24bit)
Ethernet	IB818F-I50 2x Intel® I210IT Gigabit LAN IB818F-420/335: 2x Intel® I211AT or I210AT Gigabit LAN
I/O Chip	Fintek F81964D-I
Serial Port	1x RS232/422/485 (jumper-less selection) 3x RS232
USB 2.0	2x USB 2.0 via pin-header
USB 3.X	4x USB 3.0 on board
Serial ATA	2x SATA III
Audio	Intel® Atom® SoC built-in HD audio controller + Realtek ALC888S Codec w/ class-D speaker amplifier
TPM	TPM2.0
Others	Digital I/O, +12V~+24V DC-in, EuP/ErP
Dimensions (L x W)	102 x 147 mm (4" x 5.8")
Power Consumption	Intel® Atom® E3950, 1.6GHz w/ 8GB DDR3L + 12V: 1.09A Intel Pentium N4200, 1.1GHz w/ 8GB DDR3L + 12V: 1.09A
Operating Temperature	<b>E3950:-40°C~+85°C (-40°F~185°F)</b> N4200/N3350: 0°C~+60°C (32°F~140°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~2.0 GHz) 3.5" SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS dual-channel), EuP/ErP, 12V~24V DC-in, wide temp support
IB818F-I40	Intel® Atom®x7/ E3940 (1.6GHz~1.8 GHz) 3.5" SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS dual-channel), EuP/ErP, 12V~24V DC-in, wide temp support
IB818F-I30	Intel® Atom®x7/ E3930 (1.3GHz~1.8 GHz) 3.5" SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS dual-channel), EuP/ErP, 12V~24V DC-in, wide temp support
IB818F-420	Intel® Pentium® N4200 (1.1GHz~2.5GHz) 3.5" SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS dual-channel), EuP/ErP, 12V~24V DC-in
IB818F-335	Intel® Celeron® N3350 (1.1GHz~2.4GHz) 3.5" SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS dual-channel), EuP/ErP, 12V~24V DC-in
IB818F-J3455	Intel® Celeron® J3455 (1.5GHz/2.3GHz) 3.5" SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS Dual channel), EuP/ErP, 12V~24V DC-in
HSIB818-I	Heatsink for IB818-I50/I40/I30
HSIB818	Heatsink for IB818-420/335/J3455
HSIB818-I-1	Heat Spreader for IB818-I50/I40/I30
HSIB818-1	Heat Spreader for IB818-420/335/J3455
IB76A-2	Cable kit w/ USB, COM, Power, SATA+Power

## Dimensions and Drawing

