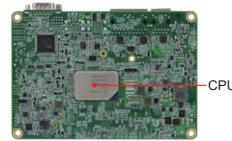


## Features

- Onboard Intel® Atom® x6000 Series processor
- 2x DDR4-3200 SO-DIMM, Max.32GB, supports IB ECC
- Supports 2x DisplayPort (DP and Type-C), eDP or 24-bit dual-channel LVDS
- 3x Intel® 2.5G LAN
- 2x USB 2.0, 4x USB 3.1, 2x SATA III
- 1x M.2 sockets (E-Key), 1x Mini PCI-E slot (full-size)
- Watchdog timer, Digital I/O, TPM (2.0), mSATA(Share with SATA port)
- Wide-range operating temperature from -40°C to 70°C



IB836 with Heatsink

IB836 with Heat spreader

## Specifications

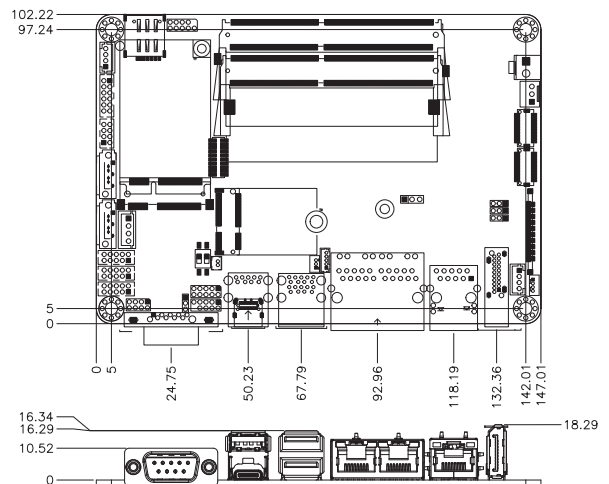
CPU	Intel® Atom® QC x6425E (1.8GHz/3.0GHz) Intel® Atom® QC x6413E (1.5GHz/3.0GHz)
PCH	Integrated in Intel® SoC
Memory	DDR4-3200 SO-DIMM, Max. 32GB, (supports IB ECC based on CPU)
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	1x mSATA (Share with SATA port)
Mini Type Slots	1x M.2 (E-Key, type:2230) 1x Mini PCI-E (full-size)
Graphics Controller	Intel® SoC integrated Gen11 Graphics
Video Output	2x DisplayPort (DP connector & Type-C) eDP or 24-bit dual-channel LVDS
Ethernet	3x Intel® I225IT 2.5G LAN for Atom® (x6000)
I/O Chipset	Fintek F81964D-I
Serial Port	1x RS232/422/485 (Jumperless selection) 3x RS232
USB 2.0	2x USB 2.0 (Pin-header)
USB 3.X	3x USB 3.1 (Type-A) 1x USB (Type-C)
Serial ATA	2x SATA III
Audio	Built-in HD with Realtek ALC888S w/ class-D amplifier
TPM	TPM (2.0)
Others	Digital I/O (4-in/4-out), EuP/ErP, +9V~+36V DC-in
Dimensions (L x W)	102mm x 147mm (4" x 5.8")
Power Consumption	Intel® Atom® x6413E 1.5GHz w/ 2x DD4 3200 16GB +12V: 1.87A
Operating Temperature	Atom® x6000: -40°C~70°C(-40°F~158°F)
Storage Temperature	-40°C~85°C (-40°F ~185°F)
Relative Humidity	90% (non-condensing@60°C)

## Ordering Information

IB836F/FE-6425E	Intel® Atom® x6425E (1.8GHz~3.0GHz) 3.5" SBC w/ 3x 2.5G LAN, 2x DisplayPort (DP connector & Type-C), eDP or LVDS, mSATA, M.2, EuP/ErP, 9V~36V DC-in, wide temperature support
IB836F/FE-6413E	Intel® Atom® x6413E (1.5GHz~3.0GHz) 3.5" SBC w/ 3x 2.5G LAN, 2x DisplayPort (DP connector & Type-C), eDP or LVDS, mSATA, M.2, EuP/ErP, 9V~36V DC-in, wide temperature support
HSIB836-X-B	Heatsink for IB836F/FE
HSIB836-X-2	Heat spreader for IB836F/FE

\*model name with "F" is LVDS, "FE" is eDP

## Dimensions and Drawing



1 Single Board Computers

2 CPU Modules

3 Motherboards

4 CPU Cards