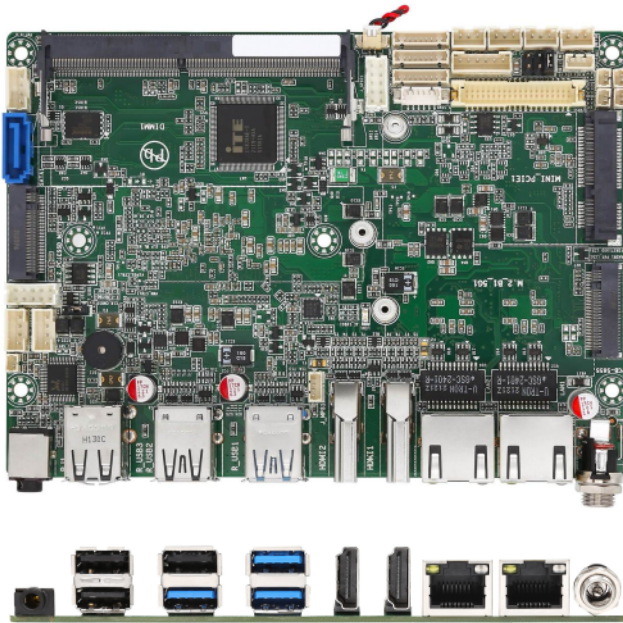


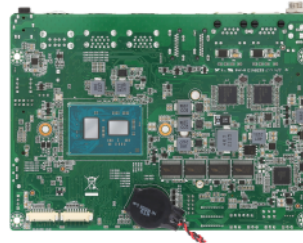
# IB6412

3.5 Disksize SBC Motherboard  
Intel®Elkhart Lake J6412 SoC Processor (TDP 10W)  
Atom x6000e series 10nm w/ Dual Intel GbE Ethernet



## Features

- Intel Elkhart Lake Celeron J6412 processor
- CPU on Rear side for heat dissipation
- 6 x COM, 10 x USB, 2 x Gigabit LAN
- 2 x M.2, 1 x mPCIe
- Support triple displays for 2 x HDMI, 1 x LVDS/eDP



## Core System

CPU	Intel Celeron J6412 CPU, Quad-Core, up to 2.6 GHz, TDP 10W
System Memory	DDR4-2666/2933/3200, 1 x SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI
Storage	1 x SATA 3.0, 1 x M.2 SATA, 1 x mSATA
Watchdog Timer	1 - 255 steps by software program
Expansion Slot	1 x M.2 (Key-M, 2280, NVMe x2/ SATA) 1 x M.2 (Key-B, 3052, USB 3.0/2.0) 1 x Mini-PCIe (PCIe + USB 2.0/ SATA)

## Graphics

Chipset	Intel UHD Graphics
VGA	-
DVI	-
HDMI	Up to 4096 x 2160 @ 30Hz
Display Port	-
LVDS	Up to 1920 x 1200 @ 60Hz (default)
eDP (Option)	Up to 3840 x 2160 @ 60Hz 30bpp or 4096 x 2304 @ 60Hz 24bpp

## Rear I/O

USB	3 x USB 3.0 3 x USB 2.0
Display I/O	2 x HDMI
Audio I/O	1 x Line-Out + MIC 2 in 1 4.0mm Jack
LAN I/O	2 x RJ-45, Intel I211/I210 Giga LAN
Serial Port	-
PS/2 Port	-
Others	DC 12V Power Input 2.5mm Jack

## Internal Connectors

USB	4 x USB 2.0
Display I/O	1 x LVDS/eDP
Audio I/O	Realtek ALC662 5.1 Channel HDA Codec
Serial Port	3 x RS-232 (COM 1/2/3, Header) 2 x RS-232/TTL (COM 4/5, Header) 1 x RS-232/485/TTL (COM 6, Header)
Parallel Port	-
GPIO	1 x GPIO Header (Programmable support 8-bit GPIO)
Others	1 x Power LED Header 1 x Power Button Header 1 x System Reset Header 1 x HDD LED Header 1 x CPU FAN Header 1 x MPS Header 2 x GSPI Header 1 x SIM Card Header

## Environment / Other

Power Input	DC-in 12V
Smart Fan Control	Supported
Dimensions	146 x 105 mm, 3.5-inch
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Storage Temperature	-25°C to +75°C (-4°F to +158°F)
Humidity	5% to 95% relative humidity, non-condensing
OS Support	Windows 10 64-bit, Linux
Certifications	CE / FCC Class B

## Ordering information

SBC-IB6412	3.5 Inch DiskSize SBC with Intel J6412 SoC, Dual Lan, Dual HDMI, 12VDC power input
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Remarks: 1. Specifications are subject to change without prior notice  
2. ODM/OEM is available. 3. For user manual & datasheet download, visit [www.ibt.ca](http://www.ibt.ca)