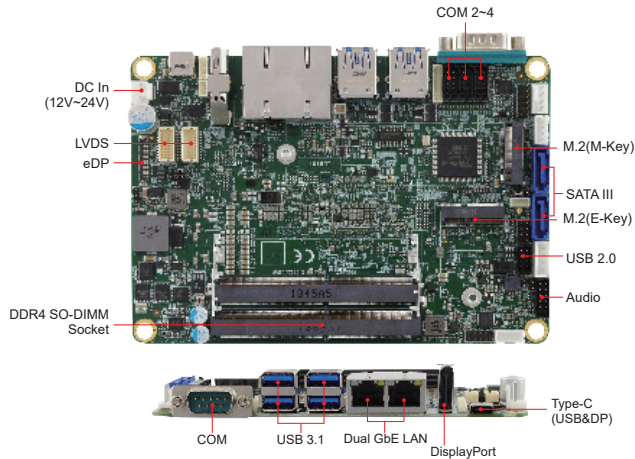
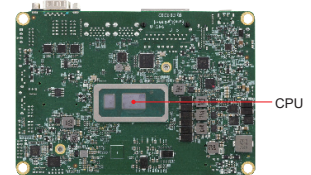


NEW

15 years  
Life Time

## Features

- Onboard 8th Gen Intel® Core™ i7/i5/i3/ Celeron® processor
- 2x DDR4-2400 SO-DIMM, Max.32GB, Non-ECC
- 2x DisplayPort (DP connector & Type C), eDP or 24-bit dual-channel LVDS
- 2x Intel® PCI-E GbE LAN
- Watchdog timer, Digital I/O, TPM (2.0)
- 2x USB 2.0, 4x USB3.1 (Type A), 1x USB Type-C, 2x SATA III
- 2x M.2 sockets (M/E-Key)



## Specifications

|                          |                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                      | 8th Gen Intel® Core™ i7-8665UE (1.7GHz/4.4GHz)<br>8th Gen Intel® Core™ i5-8365UE (1.6GHz/4.1GHz)<br>8th Gen Intel® Core™ i3-8145UE (2.2GHz/3.9GHz)<br>Intel® Celeron® 4305UE (2.0GHz) |
| PCH                      | Integrated in 8th Gen Intel® Core™ / Celeron® processor                                                                                                                               |
| Memory Types             | DDR4-2400 SO-DIMM, Max. 32GB (Non-ECC)                                                                                                                                                |
| BIOS                     | AMI                                                                                                                                                                                   |
| Watchdog Timer           | 256 levels                                                                                                                                                                            |
| H/W Monitor              | Yes                                                                                                                                                                                   |
| Storage Device Interface | 1x M.2 (M-Key)                                                                                                                                                                        |
| Mini Type Slots          | 1x M.2 (M2280, Support NVMe)<br>1x M.2 (E2230, Support CNVi)                                                                                                                          |
| Graphics Controller      | Intel® UHD Graphics 620                                                                                                                                                               |
| Video Output             | 2x DisplayPort (DP connector & Type C),<br>eDP or 24-bit dual-channel LVDS                                                                                                            |
| Ethernet                 | IB919AF series : Intel® I219LM Gigabit LAN PHY<br>IB919EF series: Intel® I219V Gigabit LAN PHY<br>Intel® I211AT PCI-E Gigabit LAN (as 2nd LAN)                                        |
| I/O Chipset              | Fintek F81964D-I<br>1x RS232/422/485 (Jumperless selection)<br>3x RS232                                                                                                               |
| USB 2.0                  | 2x USB2.0 (Pin-header)                                                                                                                                                                |
| USB 3.0/ 3.1             | 4x USB3.1 (Type A)<br>1x USB Type-C                                                                                                                                                   |
| Serial ATA               | 2x SATA III                                                                                                                                                                           |
| Audio                    | Built-in HD with Realtek ALC269 w/ class-D amplifier                                                                                                                                  |
| TPM                      | TPM (2.0)                                                                                                                                                                             |
| Others                   | Digital I/O (4-in/4-out), EuP/ErP, +9 (Non-tolerance)<br>~+24V DC-in (+20%)                                                                                                           |
| Dimensions (L x W)       | 102mm x 147mm (4" x 5.8")                                                                                                                                                             |

|                       |                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Power Consumption     | Intel® Core™ i7-8665UE 1.70GHz<br>w/2x DDR4-2400 16GB<br>+12V: 2.25A<br>Intel® Core™ i3-8145UE 2.20GHz<br>w/2x DDR4-2400 16GB<br>+12V: 2.24A |
| Operating Temperature | 0°C~60°C                                                                                                                                     |
| Storage Temperature   | -20°C~80°C                                                                                                                                   |
| Relative Humidity     | 90% (non-condensing@60°C)                                                                                                                    |

## Ordering Information

|              |                                                                                                                                                                                                                                                                                         |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IB919AF-8665 | 3.5" Intel® Core i7-8665UE (1.7GHz/4.4GHz) onboard,<br>w/ I211AT GbE LAN + I219LM GbE LAN, USB Type C (USB 3.1+DP), VGA (DisplayPort + DP or LVDS), 2x SATA III, 4x COM, 2x M.2 (M2280 & E2230), DC-in (9V~24V), Support iAMT 11.0, TPM (2.0), Optional Heatsink, w/o cable kit, (RoHS) |
| IB919AF-8365 | 3.5" Intel® Core i5-8365UE (1.6GHz/4.1GHz) onboard,<br>w/ I211AT GbE LAN + I219LM GbE LAN, USB Type C (USB 3.1+DP), VGA (DisplayPort + DP or LVDS), 2x SATA III, 4x COM, 2x M.2 (M2280 & E2230), DC-in (9V~24V), Support iAMT 11.0, TPM (2.0), Optional Heatsink, w/o cable kit, (RoHS) |
| IB919EF-8145 | 3.5" Intel® Core i3-8145UE (2.2GHz/3.9GHz) onboard,<br>w/ I211AT GbE LAN + I219V GbE LAN, USB Type C (USB 3.1+DP), VGA (DisplayPort + DP or LVDS), 2x SATA III, 4x COM, 2x M.2 (M2280 & E2230), DC-in (9V~24V), EuP/ErP, TPM (2.0), Optional Heatsink, w/o cable kit, (RoHS)            |
| IB919EF-4305 | 3.5" Intel® Celeron® 4305UE (2.0GHz) onboard, w/ I211AT GbE LAN + I219V GbE LAN, USB Type C (USB 3.1+DP), VGA (DisplayPort + DP or LVDS), 2x SATA III, 4x COM, 2x M.2 (M2280 & E2230), DC-in (9V~24V), EuP/ErP, TPM (2.0), Optional Heatsink, w/o cable kit, (RoHS)                     |
| HSIB919-A    | Heatsink for IB919                                                                                                                                                                                                                                                                      |
| IB76A-1      | Cable Kit w/USB, COM, Power cable, SATA+Power cable for IB919 series                                                                                                                                                                                                                    |