



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 USB 3.1 (Type-A), 1x USB (Type-C), 2x SATA III
- 2x M.2 sockets (M/E-Key)

1 Single Board Computers

2 CPU Modules

3 Motherboards

4 CPU Cards

Specifications

CPU	8th Gen Intel® Core™ i7-8665UE (1.7GHz/4.4GHz) 8th Gen Intel® Core™ i5-8365UE (1.6GHz/4.1GHz) 8th Gen Intel® Core™ i3-8145UE (2.2GHz/3.9GHz) Intel® Celeron® 4305UE (2.0GHz)
PCH	Integrated in 8th Gen Intel® Core™ / Celeron® processor
Memory	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, supports NVMe) 1x M.2 (E2230, supports CNVi)
Graphics Controller	Intel® UHD Graphics 620
Video Output	2x DisplayPort (DP connector & Type-C) eDP or 24-bit dual-channel LVDS
Ethernet	IB919AF series : Intel® I219LM Gigabit LAN PHY IB919EF series: Intel® I219V Gigabit LAN PHY Intel® I211AT or I210AT Gigabit LAN (as 2nd LAN)
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	4x USB 3.1 (Type-A) 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), +9V (Non-tolerance) ~+24V DC-in (+20%), EuP/ErP
Dimensions (L x W)	102mm x 147mm (4" x 5.8")
Power Consumption	Intel® Core™ i7-8665UE 1.70GHz w/ 2x DDR4-2400 16GB +12V: 2.25A Intel® Core™ i3-8145UE 2.20GHz w/2x DDR4-2400 16GB +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	Intel® Core™ i7-8665UE (1.7GHz/4.4GHz) 3.5" SBC w/ I211AT or I210AT 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), supports iAMT 11.0, TPM (2.0), Optional heatsink, w/o cable kit, (RoHS)
IB919AF-8365	Intel® Core™ i5-8365UE (1.6GHz/4.1GHz) 3.5" SBC w/ I211AT or I210AT 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), supports iAMT 11.0, TPM (2.0), Optional heatsink, w/o cable kit, (RoHS)
IB919EF-8145	Intel® Core™ i3-8145UE (2.2GHz/3.9GHz) 3.5" SBC w/ I211AT or I210AT 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	Intel® Celeron® 4305UE (2.0GHz) 3.5" SBC 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
HSIB919-1	Heat spreader for IB919
IB76A-2	Cable Kit w/ USB, COM, Power cable, SATA+Power cable for IB919 series

Dimensions and Drawing

