



## 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) 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 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) 1x M.2 (E2230, Support 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 PCI-E Gigabit LAN (as 2nd LAN)
I/O Chipset	Fintek F81964D-I 1x RS232/422/485 (Jumperless selection) 3x RS232
USB 2.0	2x USB2.0 (Pin-header)
USB 3.0/ 3.1	4x USB3.1 (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), EuP/ErP, +9 ( Non-tolerance) ~ +24V DC-in (+20%)
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	3.5" Intel® Core i7-8665UE (1.7GHz/4.4GHz) onboard, 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, 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, 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