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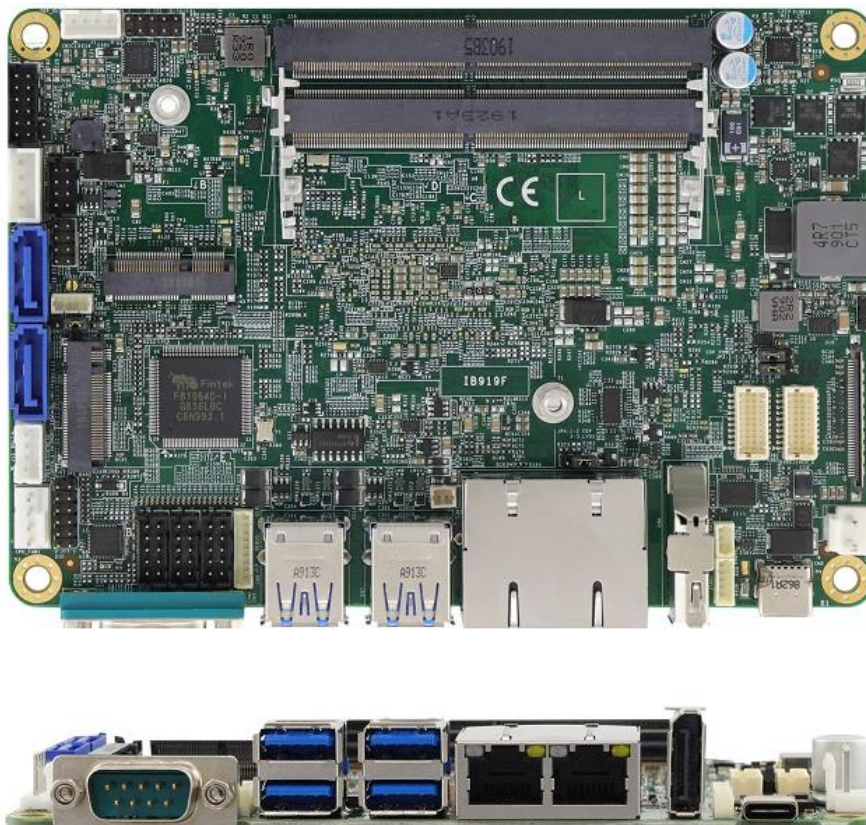


Datasheet

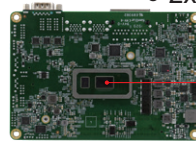
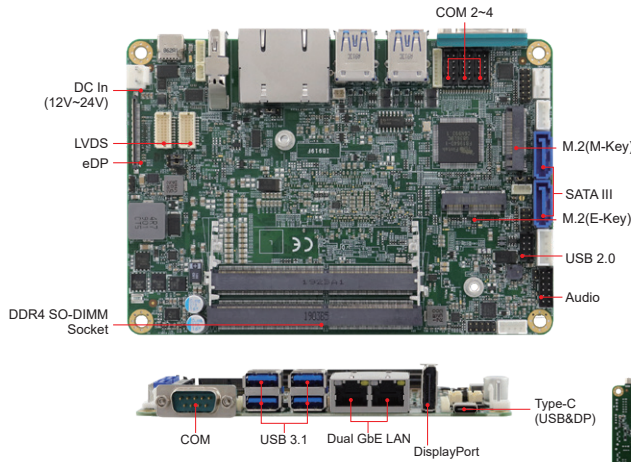
iBASE

IB919

Industrial 3,5" Single-Board Computer with 8th Gen. Intel®Core™i U-Series processor



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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 Type	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 Chip	Fintek F81964D-I
Serial Port	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), +9 (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)

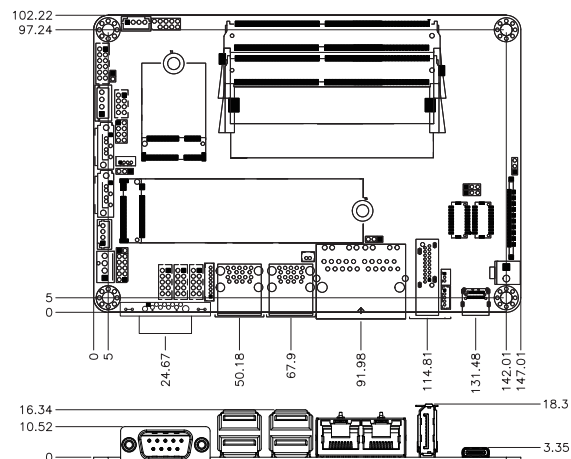
Features

- 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)

Ordering Information

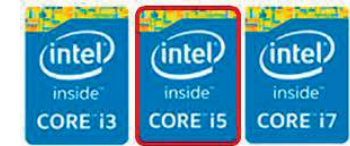
IB919AF-8665	3.5" SBC with Intel® Core i7-8665UE (1.7GHz/4.4GHz) on board, I211AT GbE LAN + I219LM GbE LAN, USB Type C (USB 3.1+DP), VGA (DisplayPort + DP or LVDS), 2x SATA III, 4x COM, 2x M.2 (M2280 & E2230), DC-in (9V~24V), Support iAMT 11.0, TPM (2.0), Optional Heatsink, w/o cable kit, (RoHS)
IB919AF-8365	3.5" Intel® Core i5-8365UE (1.6GHz/4.1GHz) on board, 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) on board, 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) on board, 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-1	Cable Kit w/USB, COM, Power cable, SATA+Power cable for IB919 series

Dimensions and Drawing



IB919 – 3,5" SINGLE-BOARD COMPUTER

COMING SOON



BOARD / TFT-DISPLAY KITS WITH CABLES AND ACCESSORIES

Display Size	7,0" (17.78cm)	10,1" (25.654cm)	10,1" (25.654cm)	10,4" (26.416cm)	12,1" (30.734cm)	15,6" (39.624)	13,3" (33.782cm)	15,6" (39.624cm)	17,3" (xxcm)	18,5" (46.99cm)	21,5" (54.61cm)	24,0" (60.96cm)
Part Number	TM070JVHG33-01	TM101JVHG32-01	TM101JDHG32-00	G104XVN01.0	G121EAN01.0	B156ZAN03.1	G133HAN01.0	NL192108AC18-02D	B173ZAN01.0	G185HAN01.0	G215HVN01.0	G240HW01V1
Manufacturer	Tianma	Tianma	Tianma	AUO	AUO	AUO	AUO	Tianma	AUO	AUO	AUO	AUO
Resolution	1280x800	1280x800	1280x800	1024x768	1280x800	3840x2160	1920x1080	1920x1080	3840x2160	1920x1080	1920x1080	1920x1080
Brightness [cd/m2]	500 cd/m2	850 cd/m2	1000 cd/m2	470	500	400	400	400	400	350	300	300
Backlight	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED
Converter	integrated	integrated	integrated	integrated	integrated	Integrated	integrated	integrated	Integrated	integrated	integrated	integrated
Viewing Angle v/h	170°/170°	170°/170°	170°/170°	178°/178°	178°/178°	170° / 170°	178°/178°	176°/176°	178° / 178°	178°/178°	178°/178°	178°/178°
Interfaces	LVDS	LVDS	LVDS	LVDS	LVDS	eDP	LVDS	LVDS	eDP	LVDS	LVDS	LVDS
Dimensions mm	181.8x125.6x6.35	258.7x177.3x12.5	229.8x149.0x9.11	238.6x175.8x6.5	278.0x184.0x9.29	348.2x215.2x2.6	309.7x184.1x9.6	363.8x215.9x6.3	398.1x246.1x4	430.4x254.6x12.0	495.6x292.2x12.7	556.0x323.2x17.0
Touch	PCAP	PCAP										

Form Factor	3,5" Single-Board Computer
Manufacturer	iBASE
Part Number	IB919AF-8365
Processor	Intel® Core™ i5-8365UE
Memory	8GB DDR4 included (optional up to 32GB)
SSD	64GB MLC M.2 included
Expansion Slot	1x M.2 Key M Type 2280 (shared w. SSD), 1x M.2 Key E Type 2230
Display Interface	2x DisplayPort (DP connector & Type C)
eDP	eDP
LVDS	24-bit Dual Channel LVDS
LAN	2x Gigabit LAN
SATA	2x SATA III 1x RS232/422/485, 3x RS232
I/O	1x USB Type C (shared with DP), 4x USB 3.1, 2x USB 2.0 TPM 2.0, Digital I/O, Audio with Amplifier
Power	12V – 24V DC-in



Other configuration on request!

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