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Datasheet

iBASE

IB917

3,5" SBC with 7th Generation Intel® Core™ U-Series processor

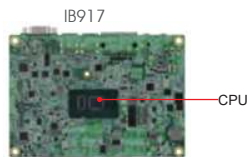
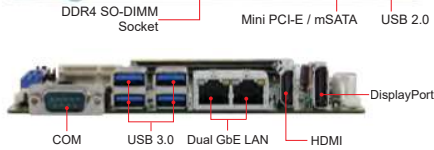
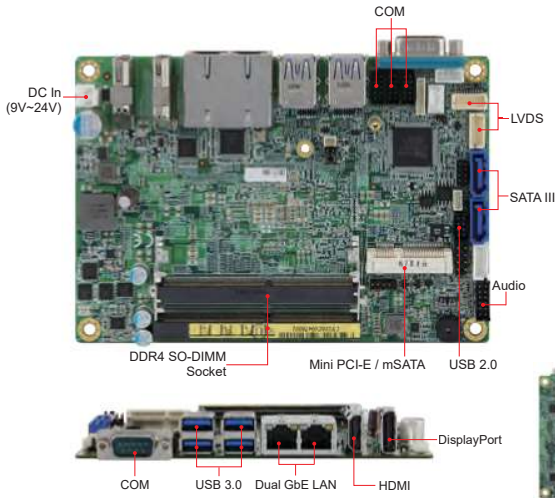


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IB917

3.5" Disk-Size SBC

7th Gen Intel® Core™ U-Series 3.5-inch Disk-Size SBC



Features

- Onboard 7th Gen Intel® Core™ U-Series processor
- 2x DDR4-2133 SO-DIMM, Max 32GB, Non-ECC
- Supports DisplayPort, HDMI and 24-bit dual-channel LVDS (IB917)/eDP(IB916)
- 2x Intel® PCI-E GbE LAN
- Watchdog timer, Digital I/O, mSATA, iSMART, TPM (2.0)
- 2x USB 2.0, 4x USB 3.0, 4x COM, 2x SATA III
- 1x Mini PCI-E slot

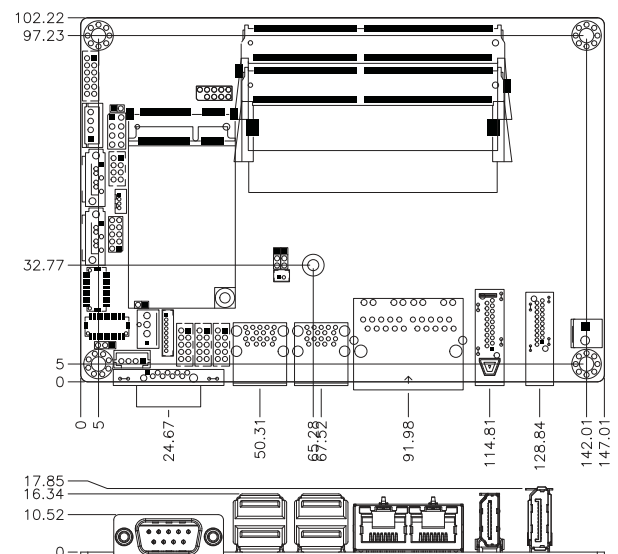
Specifications

CPU	BGA1356 for 7th Gen Intel® Core™ U-Series i7/i5/i3/Celeron® DC processors, up to 3.4GHz
PCH	Integrated in 7th Gen Intel® Core™ U-Series processor
Memory Types	2x DDR4-2133 SO-DIMM, Max 32GB (Non-ECC)
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	1x mSATA
Mini Type Slots	1x Mini PCI-E (full-size)
Graphics Controller	7th Gen Intel® Core™ U-Series processor integrated graphics
Video Output	Supports DisplayPort, HDMI and 24-bit dual-channel LVDS
Ethernet	IB917AF series: Intel® I219LM LAN PHY IB917F series: Intel® I219V LAN PHY Intel® I211AT PCI-E Gigabit LAN (as 2nd LAN)
I/O Chip	Fintek F81846AD-I
Serial Port	1x RS-232/422/485 (jumperless selection), 3x RS232 Custom Version: 2x RS232/422/485, 2x RS232 (PC-60-954)
USB 2.0	2x USB 2.0 via pin header
USB 3.0/ 3.1	4x USB 2.0 via pin header
Serial ATA	2x SATA III
Audio	7th Gen Intel® Core™ U-Series processor built-in HD Audio controller + Realtek ALC662 codec
TPM	TPM (2.0)
Others	Digital I/O, +9V~ +24V DC-in, iSMART
Dimensions (L x W)	102mm x 147mm (4" x 5.8")
Power Consumption	Intel® i7-7600U, 2.8GHz w/ 8GB DDR4-2133+12V: 3.46A Intel® i3-7100U, 2.4GHz w/ 8GB DDR4-2133+12V: 2.68A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	90% (non-condensing @60°C)

Ordering Information

PC-60-954 DI-IB917AF-7300/ Custom	Custom 3.5" SBC with Intel® Core™ i5-7300U w/ dual PCI-E GbE LAN, DP & HDMI, LVDS, TPM (2.0), iSMART, mSATA, 2x RS232/422/485, 2xRS232
IB917AF-7600	Intel® Core™ i7-7600U(2.8GHz/3.9GHz), 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, DP & HDMI, LVDS(24-bit LVDS dual-channel), TPM (2.0), iSMART, mSATA, iAMT(11.6)
IB917AF-7300	Intel® Core™ i5-7300U(2.6GHz/3.5GHz), 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, DP & HDMI, LVDS (24-bit LVDS dual-channel), TPM (2.0), mSATA, iSMART
IB917F-7100	Intel® Core™ i3-7100U(2.4GHz), 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, DP & HDMI, LVDS(24-bit LVDS dual-channel), TPM (2.0), mSATA, iSMART
IB917F-3965 (MOQ)	Intel® Celeron® 3965U(2.2GHz), 3.5-inch Disk-size SBC, w/ dual PCI-E GbE LAN, DP & HDMI, LVDS(24-bit LVDS dual-channel), TPM (2.0), mSATA, iSMART

Dimensions and Drawing



IB917 – 3,5" SINGLE-BOARD COMPUTER

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)	13,3" (33.782cm)	15,6" (39.624cm)	18,5" (46.99cm)	21,5" (54.61cm)	24,0" (60.96cm)
Part Number	TM070JVHG33-01	TM101JVHG32-01	TM101JDHG32-00	G104XVN01.0	G121EAN01.0	G133HAN01.0	NL192108AC18-02D	G185HAN01.0	G215HVN01.0	G240HW01V1
Manufacturer	Tianma	Tianma	Tianma	AUO	AUO	AUO	Tianma	AUO	AUO	AUO
Resolution	1280x800	1280x800	1280x800	1024x768	1280x800	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
Brightness [cd/m2]	500 cd/m2	850 cd/m2	1000 cd/m2	470	500	400	400	350	300	300
Backlight	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED
Converter	integrated	integrated	integrated	integrated	integrated	integrated	integrated	integrated	integrated	integrated
Viewing Angle v/h	170°/170°	170°/170°	170°/170°	178°/178°	178°/178°	178°/178°	176°/176°	178°/178°	178°/178°	178°/178°
Interfaces	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	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	309.7x184.1x9.6	363.8x215.9x6.3	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	IB917AF-7300
Processor	Intel® Core™ i5-7300U
Memory	4GB DDR3L (optional up to 32GB)
SSD	32GB MLC mSATA (included)
Expansion Slot	1x miniPCIe (1x Full Size, shared w. mSATA)
Display Interface	DisplayPort, HDMI
LVDS	24-bit Dual Channel LVDS
LAN	2x Gigabit LAN
SATA	2x SATA III
	1x RS232/422/485, 3x RS232
I/O	4x USB 3.0, 2x USB 2.0
	Digital I/O
Power	9V – 24V DC-in



Other configuration on request!

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