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Datasheet

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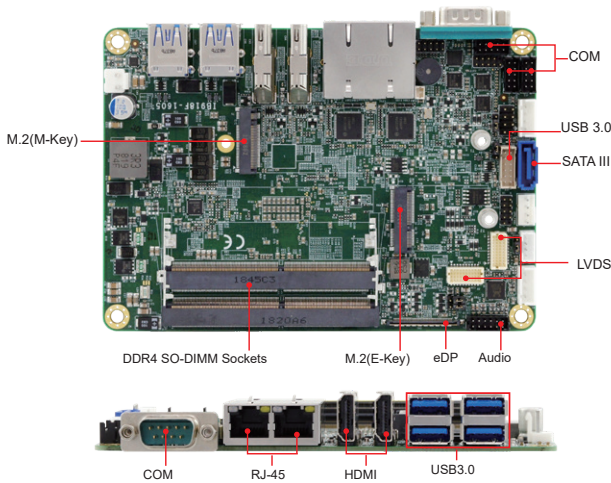
IB918

3,5" Single-Board Computer with AMD® Ryzen™ V1000 / R1000 Embedded Processor



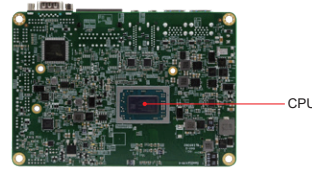
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NEW



Features

- AMD Ryzen™ Embedded V1000/R1000 SoC on board
- 2x DDR4 SO-DIMM, Max. 32GB
- 2x PCI-E Gigabit LAN
- 2x HDMI, 1x eDP, 1x 24-bit LVDS dual-channel
- 1x USB2.0, 4x USB3.1, 1x SATA III, 4x COM
- 2x M.2 sockets (M/ E key)



IB918 heatsink with fan

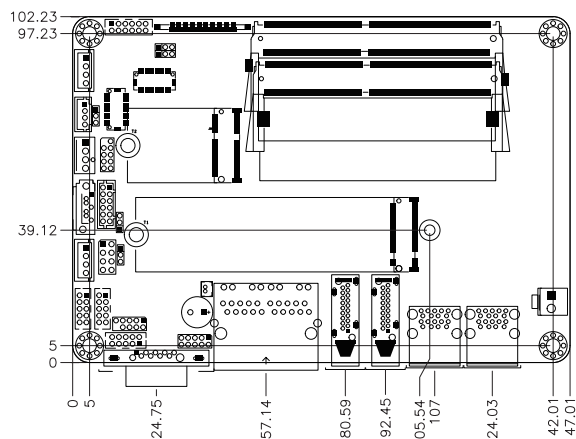
Specifications

CPU	AMD Ryzen™ Embedded V1000/R1000 SoC on board
PCH	N/A
Memory Types	DDR4-2400 SO-DIMM, Max. 32GB, supports 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 (M-key, type:2280, NVMe) 1x M.2 (E-key, type:2230, CNVi)
Graphics Controller	AMD Raden™ Vega integrated
Video Output	2x HDMI(2.0a), 1x 24-bit dual channel LVDS & eDP
Ethernet	2x Intel® I211AT PCI-E Gigabit LAN
I/O Chip	Fintek F81964D-I
Serial Port	1x RS232/422/485 (Jumperless selection) 3x RS232
USB 2.0	1x USB2.0 on board
USB 3.0/ 3.1	4x USB3.1 on board
Serial ATA	1x SATA III
Audio	Built-in audio w/ Realtek ALC269Q-VC3-GR, w/ class-D amplifier
TPM	TPM (2.0)
Others	Digital I/O(4-in/ 4-out), EuP/ErP, +12V~+24V DC-in (+/-10%)
Dimensions (L x W)	102mm x 147mm (4" x 5.8")
Power Consumption	AMD Ryzen™ Embedded V1605B 2.00GHz w/ 2x 16GB DDR4-2400 +12V: 2.55A AMD Ryzen™ Embedded R1606G 2.6GHz w/ 2x 16GB DDR4-2400 +12V: 2.34A
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

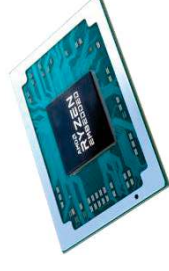
IB918F-1605	AMD Ryzen™ V1605B QC APU (2.0GHz~3.6GHz) on board 3.5-inch Disk-Size w/ dual LAN, 2x HDMI, eDP & LVDS (24-bit dual-channel), EuP/ErP, 12V~24V DC-in
IB918F-1202	AMD Ryzen™ V1202B DC APU (2.3GHz~3.3GHz) on board 3.5-inch Disk-Size w/ dual LAN, 2x HDMI, eDP & LVDS (24-bit dual-channel), EuP/ErP, 12V~24V DC-in
IB918F-1606G	AMD Ryzen™ R1606G DC (2.6GHz~3.5GHz) on board 3.5-inch Disk Size w/ dual GbE LAN, 2x HDMI (2.0a), eDP, EuP/Erp, 12V~24V DC-in
IB918F-1505G	AMD Ryzen™ R1505G DC (2.4GHz~3.3GHz) on board 3.5-inch Disk Size w/ dual GbE LAN, 2x HDMI (2.0a), eDP, EuP/Erp, 12V~24V DC-in
HSIB918-A	Heat sink with Fan for IB918
HSIB918-1	Heat spreader for IB918
IB90	Cable kit w/ PW87,PK1H,SATA-53A,USB-168 for V1000 series
IB91	Cable kit w/ PW87,PK1H,SATA-53A,USB-172 for R1000 series

Dimensions and Drawing



IB918 – 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)	10,4" (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	G104XVN01.0	G121EAN01.0	G133HAN01.0	NL192108AC18-02D	G185HAN01.0	G215HVN01.0	G240HW01V1
Manufacturer	Tianma	Tianma	AUO	AUO	AUO	Tianma	AUO	AUO	AUO
Resolution	1280x800	1280x800	1024x768	1280x800	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
Brightness [cd/m ²]	500 cd/m ²	850 cd/m ²	470	500	400	350	300	300	300
Backlight	LED	LED	LED	LED	LED	LED	LED	LED	LED
Converter	integrated	integrated	integrated	integrated	integrated	integrated	integrated	integrated	integrated
Viewing Angle v/h	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
Dimensions mm	181.8x125.6x6.35	258.7x177.3x12.5	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	IB918F-XXXX
Processor	AMD® Ryzen™ Embedded XXXXX
Memory	TBD xGB DDR4 (optional up to 32GB)
SSD	TBD xGB 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 HDMI 2.0a
eDP	eDP
LVDS	24-bit Dual Channel LVDS (optional for R1000 Series)
LAN	2x Intel® I211 AT PCIe Gigabit LAN
SATA	1x SATA III
I/O	1x RS232/422/485, 3x RS232 4x USB 3.1, 1x 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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