



OUR GLOBAL
COMPETENCE
CENTRES

 APOLLO DISPLAY
TECHNOLOGIES



 DISTEC



 DISPLAY
TECHNOLOGY



Datasheet

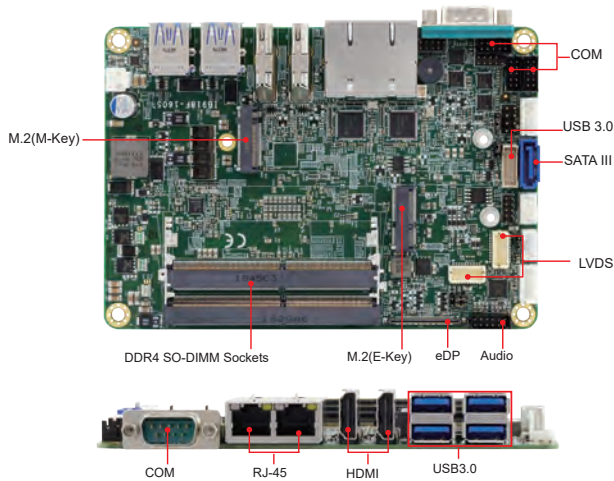
iBASE

IB918

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

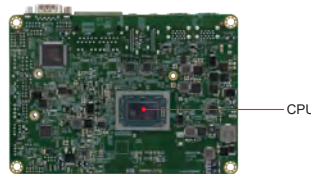


The information contained in this document has been carefully researched and is, to the best of our knowledge, accurate. However, we assume no liability for any product failures or damages, immediate or consequential, resulting from the use of the information provided herein. Our products are not intended for use in systems in which failures of product could result in personal injury. All trademarks mentioned herein are property of their respective owners. All specifications are subject to change without notice.



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

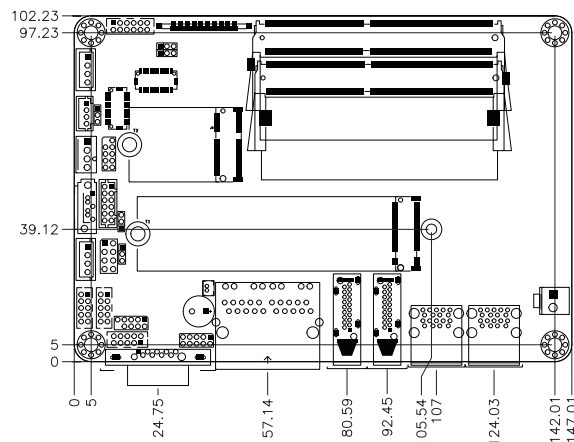
Specifications

CPU	AMD Ryzen™ Embedded V1000/R1000 SoC on board
PCH	N/A
Memory Type	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 USB 2.0 on board
USB 3.0/ 3.1	4x USB 3.1 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 V1 605B 2.00GHz w/ 2x 16GB DDR4-2400 +12V: 2.55A AMD Ryzen™ Embedded R1 606G 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

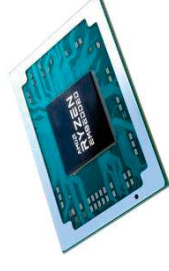
IB918F-1605	AMD Ryzen™ V1 605B QC APU (2.0GHz~3.6GHz) on board 3.5-inch Disk-Size w/ dual LAN, 2x HDMI, eDP & LVDS (24-bit dual-channel), EuP/ErP, 12V~24V DC-in
IB918F-1202	AMD Ryzen™ V1 202B DC APU (2.3GHz~3.3GHz) on board 3.5-inch Disk-Size w/ dual LAN, 2x HDMI, eDP & LVDS (24-bit dual-channel), EuP/ErP, 12V~24V DC-in
IB918F-1606G	AMD Ryzen™ R1 606G 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™ R1 505G 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!



A FORTEC GROUP MEMBER

Our company network supports you worldwide with offices in Germany, Austria, Switzerland, the UK and the USA. For more information please contact:

Headquarters

Germany



FORTEC Elektronik AG

Augsburger Str. 2b
82110 Germering

Phone: +49 89 894450-0
E-Mail: info@fortecag.de
Internet: www.fortecag.de

Fortec Group Members

Austria



Distec GmbH Office Vienna

Nuschinggasse 12
1230 Wien

Phone: +43 1 8673492-0
E-Mail: info@distec.de
Internet: www.distec.de

Germany



Distec GmbH

Augsburger Str. 2b
82110 Germering

Phone: +49 89 894363-0
E-Mail: info@distec.de
Internet: www.distec.de

Switzerland



ALTRAC AG

Bahnhofstraße 3
5436 Würenlos

Phone: +41 44 7446111
E-Mail: info@altrac.ch
Internet: www.altrac.ch

United Kingdom



Display Technology Ltd.

Osprey House, 1 Osprey Court
Hichingbrooke Business Park
Huntingdon, Cambridgeshire, PE29 6FN

Phone: +44 1480 411600
E-Mail: info@displaytechnology.co.uk
Internet: www.displaytechnology.co.uk

USA



Apollo Display Technologies, Corp.

87 Raynor Avenue,
Unit 1 Ronkonkoma,
NY 11779

Phone: +1 631 5804360
E-Mail: info@apolloDisplays.com
Internet: www.apolloDisplays.com