

# AI Inference / ARM Platform

## AIB-MR1A-A1



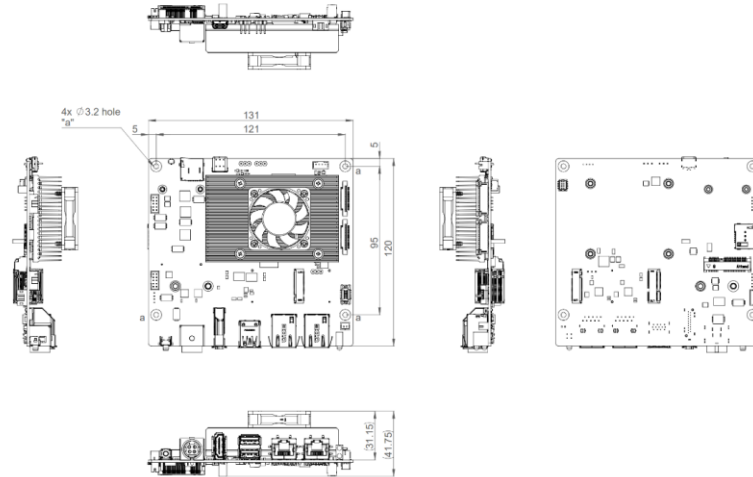
### Features

- Powered by Rockchip RK3588
- LPDDR4 8GB, eMMC 32GB
- 2 x M.2 M-Key, one w/ PCIe 3.0 x4 for AI ASIC Accelerator, one w/SATA for Storage
- 1 x M.2 E-Key for WIFI/BT, 1 x Mini PCIe for LTE
- 1 x USB 3.2 Gen1, 1 x USB 2.0, 2 x GbE, 2 x COM, 1 x HDMI 2.1

### Specifications

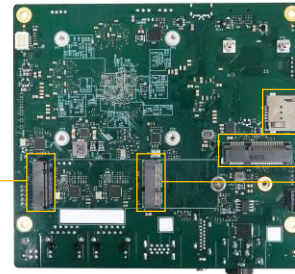
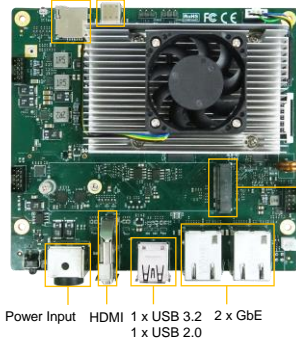
Model Number	AIB-MR1A-A1
CPU	Rockchip RK3588
Memory	LPDDR4 8GB
Storage	32GB eMMC 1 x Micro-SD slot (SD 2.0) 1 x M.2 M-Key 2280 w/SATA for Storage (Bottom Side)
Display	1 x HDMI 2.1 TMDS 3840X2160 60Hz (HDMI Type A Connector)
LAN	2 x GbE (2 x RJ45)
USB	1 x USB 3.2 Gen1 (Type A) 1 x USB 2.0 (Type A) 1 x Type C for Programming
COM	1 x header for RS-232 (TXD/RXD/CTS/RTS) and RS-485
Expansion Slot	1 x M.2 M-Key 2280 (PCIe Gen3 x4) for AI Accelerator (Top Side) 1 x M.2 E-Key 2230 (PCIe 2.1 x1+USB 2.0) for WIFI/BT 1 x Mini PCIe full-size (USB 2.0) for LTE w/Micro-SIM card holder
MISC. Function	1 x Power Button 1 x Reset Button 1 x CPU FAN header
Power Input /Connector	DC-in 12V / DC Jack 4pin
Dimension(W x D)	131 x 120mm (5.16" x 4.72")
Net Weight	0.237 kg (0.522 lb)
Temperature	Operating Temperature: 0°C ~ 70°C (32°F ~ 158°F) Storage Temperature: -40°C ~ 85°C (-40°F ~ 185°F)
Humidity	95% @ 40°C Related Humidity, Non-condensing
OS Support	Debian 11
Certification	CE/FCC

### System & Mounting Dimensions



### I/O Mechanical Layout

MicroSD socket Type C



### Ordering Information

Model name	Description
AIB-MR1A-A1	Rockchip RK3588, 8GB LPDDR4, 32GB eMMC, 1 x HDMI, 2 x GbE, 2 x USB, 2 x M KEY, 12 VDC INPUT, 0°C~70°C

### Packing List

Part No.	Description
92-8RK358-K001	AIB-MR1A-A1 Motherboard
53-0FGSEC-0000	100-240V 60W 12V 5A power adaptor

### Accessories (Optional)

Part No.	Description
32-010000-0005	US power cord
32-010000-0006	EU power cord
32-010000-0008	JP power cord
3102000037N000	UK power cord

