

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

Preliminary Version

Specifications

| Model Number | AIB-MR1A-A1 |
|------------------------|--|
| CPU | Rockchip RK3588 |
| Memory | LPDDR4 8GB |
| Storage | 32GB eMMC 1 x Micro-SD slot 1 x M.2 M-Key 2280 w/SATA for Storage (Bottom Side) |
| Display | 1 x HDMI 2.1 (HDMI Type A Connector) |
| Audio | 1 x MIC-In, 1 x Line-Out, 1 x Line-In (Optional with daughter board) |
| 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 |
| Camera Input | 2 x 2-Lane MIPI CSI-2 30-Pin Connector (Optional) |
| TPM | INFINEON:SLB9672XU20FW1610XTMA1 (Optional) |
| Expansion Slot | 1 x M.2 M-Key 2280 (PCIe 3.0 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 InnoAGE/OSR header (Optional OOB/Recovery SSD) 1 x InnoAGENT header (Optional OOB Module) 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 | TBD |
| 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 |