

AI Inference / ARM Series

AIE-KR1A-B1-AXE AIE-KR1B-B1-AXE



Features

- Bundled AXELERA M.2 AI Edge Accelerator Module
- Pre-installed VOYAGER SDK for Large Model Zoo Supporting, such as Image Classification, Object Detection, Pose Estimation.
- Powered by Rockchip RK3588
- 1 x M.2 M-Key 2280 w/SATA for Storage, 1 x M.2 E-Key 2230 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

Specifications

Model Number	AIE-KR1A-B1-AXE	AIE-KR1B-B1-AXE
CPU	Rockchip RK3588	
Memory	LPDDR4X 8GB	LPDDR4X 16GB
AI Accelerator	AXELERA M.2 AI Edge Accelerator Module, achieving up to 100 TOPS (INT8) in inference performance	
Storage	32GB eMMC 1 x Micro-SD slot 1 x M.2 Key M w/SATA for Storage	
Display	1 x HDMI 2.1 TMDS 3840x2160@60Hz (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 (1 x Type A) 1 x USB 2.0 (1 x Type A) 1 x Type C for Programming	
COM	1 x DB9 for RS-232(TXD/RXD/CTS/RTS) / RS485	
Expansion	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 Recovery Button 1 x Maskrom Button	
Power Input /Connector	DC-in 12V / Terminal Block 2pin	
Dimension(Wx Dx H)	155 x 123 x 51mm (6.10" x 4.84" x 2.01")	
Net Weight	0.827 kg (1.822 lb)	
Temperature	Operating Temperature: 0°C ~ +60°C (32°F~ 140°F) Storage Temperature: -40°C ~ +85°C (-40°F ~ 185°F)	
Humidity	95% @ 40°C Related Humidity, Non-condensing	
Certification	CE/FCC/LVD/UKCA	