

AR707

ARM INDUSTRIAL COMPUTER



Rockchip RK3588 processor
Rockchip RK3588J processor



Support HDMI, DP, eDP, MIPI-DSI/LVDS Outputs
Up to 7680 x 4320 @60 Hz



Support Wi-Fi/BT module



Fanless design
Wide temperature and voltage

CPU

CPU	Rockchip RK3588 processor Rockchip RK3588J processor
Total Cores	4-Cores Cortex-A76 and 4-Cores Cortex-A55
NPU	6 TOPs, support int4/int8/int16/FP16/BF16/TF32 acceleration
TDP	15 W

System

System Memory	8GB, Onboard LPDDR4/LPDDR4x, dual-channels
Storage	64 GB, Onboard eMMC 1 x M-Key M.2 (2242/2280) for SATA SSD 1 x TF Card reader
TPM	Optional: TPM2.0
Watchdog Timer	Yes
Auto Power On	Yes
RTC	Set up independently every day, a week as a cycle
Power Requirement	Lockable DC-IN, 12~24 V DC-IN, aviation connector, 54 V for PSE
Dimensions	200mm x 150mm x 60mm (7.87" x 5.90" x 2.36")
Construction	Metal, Grey
Cooling System	Fanless, passive cooling
Operating System	Android 14 /Debian12
Operating Temperature	0°C ~60°C (32°F~140°F) @0.7m/s Air Flow (RK3588) -20°C~70°C (-4°F ~158°F) @0.7m/s Air Flow (RK3588J)
Humidity	10% ~ 90% @45°C (non-condensing)
Storage Temperature	-40°C ~80°C (-40°F~176°F) not include the package
Certifications	CE, FCC Class B, UKCA

Network

Network Controller	Commercial (RK3588)	5 x Intel i210-AT Gigabit Ethernet 1 x Intel Ethernet Controller i226-V
	Industrial (RK3588J)	5 x Intel i210-IT Gigabit Ethernet 1 x Intel Ethernet Controller i226-IT
Ethernet Interface		4 x 1 GbE RJ45, support PoE+ (LAN3 ~ LAN6) 1 x 2.5 GbE RJ45, 1 x 1 GbE RJ45
Wi-Fi/BT		1 x E-Key M.2 (2230) for Wi-Fi/BT
Mobile Network		1 x B-Key M.2 (3042) for 4G, 1 x SIM Slot

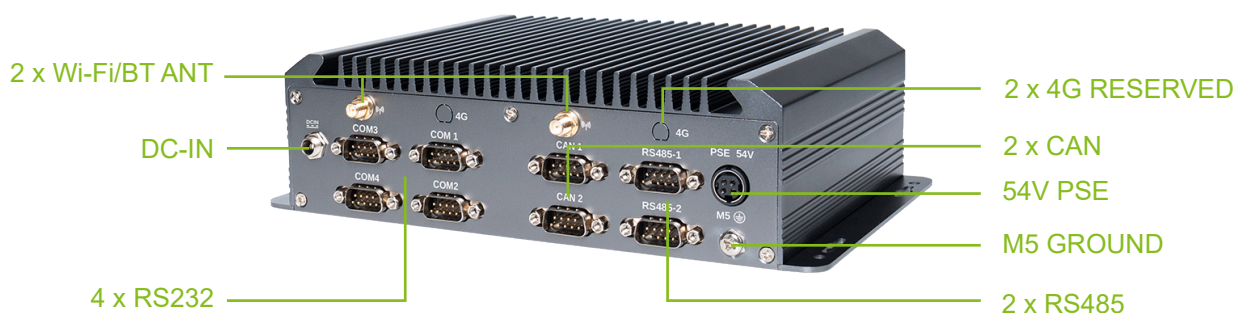
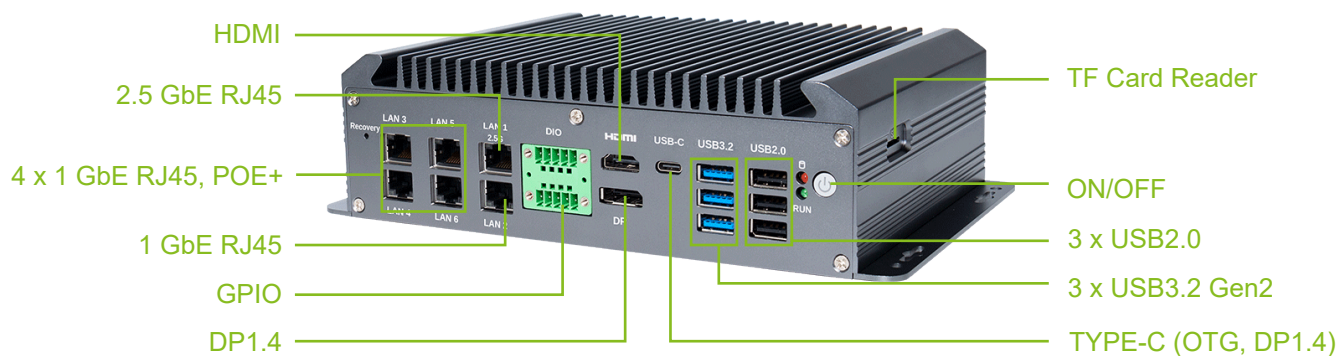
Display

GPU	Mali-G610 MP4
Graphic Engine	OpenGL ES 1.1/2.0/3.2, OpenCL 1.1/1.2/2.0, Vulkan 1.1/1.2
Multi-Media	H.265/H.264/AV1/AVS2 etc. video decoder, up to 8K@60fps 8K@30fps video encoders for H.264/H.265
Display Interface	1 x HDMI (Max. 7680 x 4320 @60Hz) 1 x DP1.4 (Max. 7680 x 4320 @60Hz)
# of Displays Supported	3

I/O interface

USB	3 x USB 3.2 GEN1, 3 x USB2.0 1 x USB Type-C (USB-OTG, DP1.4)
Serial Port	4 x RS232 DB9, 2 x RS485 DB9
CAN	2 x CAN2.0 DB9
Audio	1 x 2-in-1 headset (Reserved)
Button	1 x Power on, 1 x Recovery, 1 x 5M Ground
GPIO	10pin GPIO (4 x GPI, 4 x GPO)
Antenna	2 x Wi-Fi/BT Connector, (4G Connector reserved)

Dimensions and Drawing



Order information

AR707-3588R43E6G-GIA	<p>CPU: Rockchip RK3588</p> <p>RAM: 8 GB, Onboard LPDDR4</p> <p>Storage: 64 GB, Onboard eMMC</p> <p>Operating System: Android 14</p>
Packing List	<p>2 x Wi-Fi Antenna,</p> <p>2 x AC Power Cable, 1 x AC Power Adapter, 1 x 54V PSE Aviation Connector Power Adaptor</p>
Package	Carton, EPE

Optional items

Mobile Network Module	-
------------------------------	---



The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

