



# AR707

## ARM INDUSTRIAL COMPUTER



Rockchip RK3588 processor  
Rockchip RK3588J processor



1 x DP, 1 x HDMI, 1 x Type-C  
Up to 7680 x 4320 @60 Hz



5 RJ45, 4 support PoE+



Fanless design  
Wide temperature and voltage

### CPU

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

### Network

<b>Network Controller</b>	<b>RK3588</b>	5 x Intel i210-AT Gigabit Ethernet
	<b>RK3588J</b>	5 x Intel i210-IT Gigabit Ethernet
<b>Ethernet Interface</b>		4 x 1 GbE RJ45, support PoE+ (LAN2 ~ LAN5) 1 x 1 GbE RJ45 (Optional: 1 x 2.5 GbE RJ45)
<b>Wi-Fi/BT</b>		1 x E-Key M.2 (2230) for Wi-Fi/BT
<b>Mobile Network</b>		1 x B-Key M.2 (3042) for 4G, 1 x SIM Slot

### System

<b>System Memory</b>	8GB, Onboard LPDDR4/LPDDR4x, dual-channels
<b>Storage</b>	64 GB, Onboard eMMC (Optional: 128GB) 1 x M-Key M.2 (2242/2280) for SATA SSD 1 x TF Card reader
<b>TPM</b>	Optional: TPM2.0
<b>Watchdog Timer</b>	Yes
<b>Auto Power On</b>	Yes
<b>RTC</b>	Set up independently every day, a week as a cycle
<b>Power Requirement</b>	Lockable DC-IN, 12 ~ 24V DC-IN, aviation connector, 54 V for PSE
<b>Dimensions</b>	234mm x 150mm x 63.5mm (9.21" x 5.90" x 2.50")
<b>Construction</b>	Metal, Grey
<b>Cooling System</b>	Fanless, passive cooling
<b>Operating System</b>	Android 14 /Debian12
<b>Operating Temperature</b>	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)
<b>Humidity</b>	10% ~ 90% @45°C (non-condensing)
<b>Storage Temperature</b>	-40°C ~ 80°C (-40°F ~ 176°F) not include the package
<b>Certifications</b>	CE, FCC Class B, UKCA

### Display

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

### I/O interface

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

## Dimensions and Drawing



## Order information

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

## Optional items

<b>Mobile Network Module</b>	-
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