

# AI58J

Integrated Rockchip RK3588 Cortex-A76/2.4GHz and Cortex-A55/1.7GHz quad-core Processors



## Main Features

- Integrated Rockchip RK3588 Cortex-A76/2.4GHz and Cortex-A55/1.7GHz quad-core Processors
- 1x DDR4 RAM slot, up to 8GB
- 1x SATA3.0, 1x TF card, 1x eMMC (up to 64GB)
- 2x RJ45 GbE ports
- 1x HDMI-OUT, 1x HDMI-IN, 1x EDP, 1x LVDS, V-BY-ONE
- 1x M.2, support 4G/5G module
- 6x USB
- DC 12V Power Input

## Specification :

<b>Model No.</b>	<b>AI58J VER:0.1</b>
<b>Processor</b>	Integrated RK3588 quad-core Cortex-A76, 2.4GHz and quad-core Cortex-A55, 1.7GHz (8 cores in total) processor, NPU, computing power up to 6 TOPS
<b>Chipset</b>	Based on RK3588 SOC platform
<b>Memory</b>	Onboard LPDDR4 8G memory
<b>Graphics</b>	ARM Mali-G610 MP4 quad-core GPU, supports OpenGL ES3.2 / OpenCL 2.2 / Vulkan1.1, 450 GFLOPS 1x HDMI-OUT, 1x HDMI-IN, 1x EDP, 1x LVDS, V-BY-ONE
<b>Network</b>	2x RJ45 Gigabit network card chip 1x WIFI 6 / BT
<b>Storage</b>	1x 7pin SATA3.0 hard disk interface 1x Support TF card 1x eMMC5.1 memory chip 64G
<b>Audio</b>	Onboard ALC6626 channel high-fidelity audio controller, supports MIC/Line-out. amplifier Power amplifier 2Ω 5W speaker
<b>Expansion slots</b>	1x M.2 slot, support 4G/5G module
<b>Rear I/O interface</b>	1x DC 12V power interface 2x USB3.0 1x HDMI-OUT, 1x HDMI-IN 2x Gigabit network interface 1x Line-out/MIC 2-in-1 (black) 1x TF card slot
<b>Built in I/O interface</b>	1x DC12V_IN, 1*4pin, PH=2.5mm 1x LVDS, 2*15pin, PH=2.0mm 1x EDP interface, 2*15pin, PH=2.0mm and V-BY-ONE interface for switching, choose one of the two 1x V-BY-ONE output interface, supports up to 4K @ 60fps output, switch with V-BY-ONE, choose one of the two 1x Screen backlight power supply interface 1*6pin, PH=2.0mm 4x USB2.0, 2x 5pin, PH=2.0mm 1x SATA3.0, 7pin 1x Hard disk power supply interface 1x 4pin, PH=2.0mm 1x FAN interface, 1x 4pin, PH=2.0mm (reserved) 1x Front panel function button and indicator light interface 2x 5pin, PH=2.0mm 6x RS232 interface, COM1/COM2 supports RS232/RS485 function, jumper switch, COM3/4/5/6 is not defaulted RS232, supports TTL function 1x MIC, 1*2pin, PH=2.0mm 1x Power amplifier interface 1x4pin, PH=2.0mm 1x Burning key 1x LAN1, 1x Choose one of LAN2 and RJ45, 2x 4pin, PH=2.0mm

	1x COM_SW (jumping port)
	1*SIM card set
<b>Fan interface</b>	Fanless cooling, 1x 4pin system fan interface reserved
<b>Power input</b>	DC 12V
<b>GPIO</b>	Supports 4 input and 4 output GPIO interfaces
<b>OS</b>	Android 12, Ubuntu 20.04
<b>Working Temp.</b>	-10℃~60℃
<b>Storage Temp.</b>	-20℃~70℃
<b>Working Humidity</b>	5%-95%(relative humidity; non-condensing)
<b>Dimension</b>	148mm x 102mm

Drawing:



### Ordering info:

NO	Model	Processor	Frequency	Memory	VGA	HDMI-OUT	HDMI-IN	LVDS	EDP	V-BY-ONE	eMMC	LAN	USB	COM	RS485	Power
1	AI58J VER:0.1	RK3588	2.4G	LPDDR4 8G	1	1	1	1	1	1	64G	2	6	6	2	DC12V