

## VR58J(VR58-H2)

Suitable for: Edge Computing, Industrial Automation, Digital Signage, Medical Care etc; **OEM/ODM available**



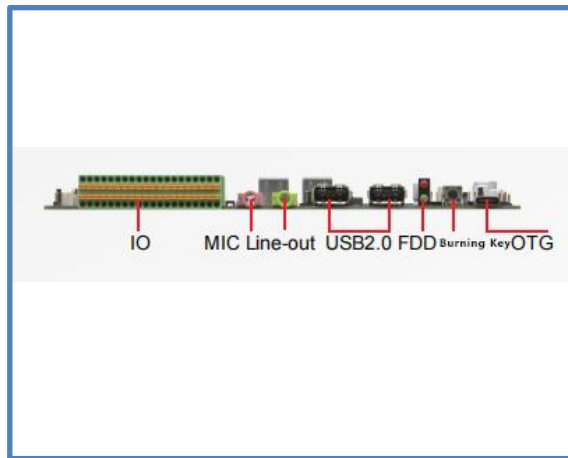
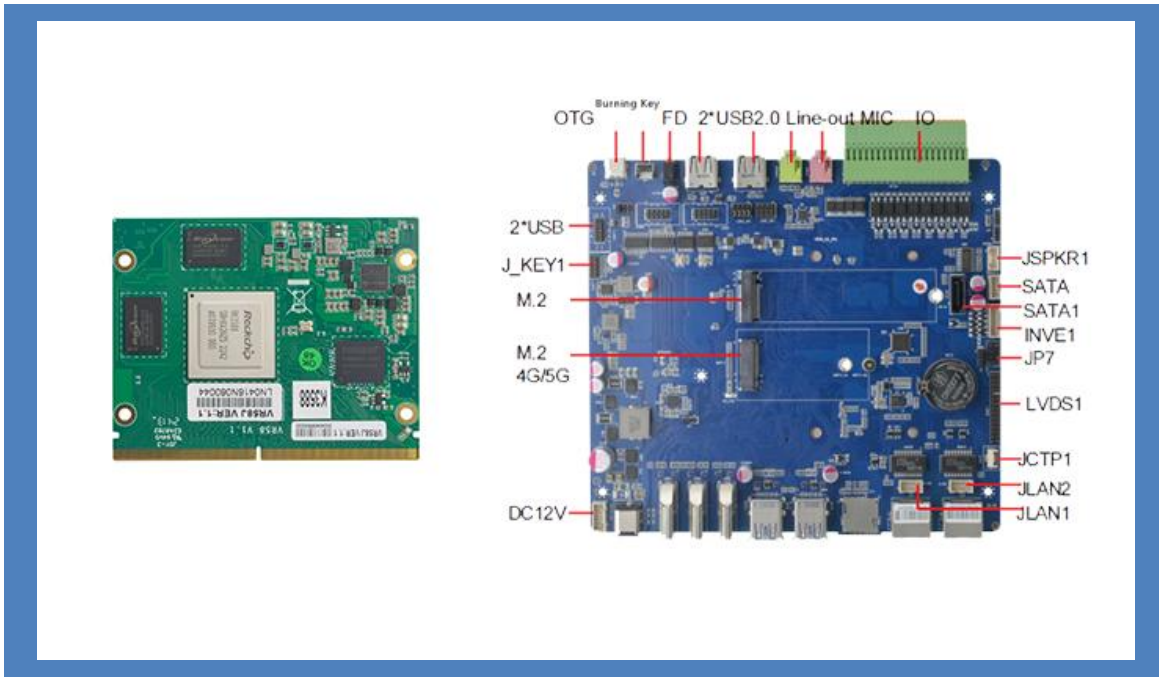
### Main Features

- Onboard Rockchip RK3588 Cortex-A76/2.4GHz and Cortex-A55/1.7GHz Quad-core Processor
- Onboard LP DDR4 4G RAM (up to 32GB)
- Onboard eMMC 32G memory (up to 128GB);  
1x TF card slot
- 2x GbE ports ; 4x USB2.0, 4x USB3.0
- 2x HDMI-OUT、1x HDMI-IN、1x LVDS
- 1x M.2, support 4G/5G module; 1x SATA; 1x MXM
- 1x WIFI&BT module
- 6x COM; 1x I2C; 1x SIM/TF card
- DC\_9~36V Power Input

### Specification :

<b>Model No.</b>	<b>VR58J(VR58-H2) VER:0.1</b>
<b>Processor</b>	RK3588 quad-core Cortex-A76, 2.4GHz and quad-core Cortex-A55, 1.7GHz (8 cores in total) processor
<b>Chipset</b>	Based on RK3588 SOC platform
<b>Memory</b>	Onboard LPDDR4 4GB (2GB/8GB/16GB optional) memory, up to 32GB
<b>Display</b>	ARM Mali-G610 MP4 quad-core GPU, supports OpenGL ES3.2 / OpenCL 2.2 / Vulkan1.1, 450 GFLOPS 2x HDMI-OUT、1x HDMI-IN、1x LVDS Support 4 screens for simultaneous display and 4 screens for separate display
<b>Network</b>	2x RTL8211F Gigabit network 1x WIFI/BT module
<b>Storage</b>	1x eMMC memory chip 32G (16GB/64GB/128G optional) Support TF card expansion
<b>Audio</b>	PMIC power management chip RK809-5 comes with a sound card, supports Line-out, MICK, and power amplifier
<b>Expansion slots</b>	1x M.2 supports 4G/5G module, 1x M.2 M Key is connected to accelerator/hard disk, 1x MXM is connected to core board, SATA hard disk interface 1x DC interface (9-36V)
<b>Backplane I/O interface</b>	2x HDMI-OUT 1x HDMI-IN 4x USB3.0 1x SIM/TF card 2x RJ45 Gigabit network
<b>Front panel I/O interface</b>	1x OTG 1x Burning key 1x Indicator light (upper red/lower green) 2x USB2.0 1x Line-OUT 1x Mic 2x 20PIN Phoenix terminals (DC12V/8*DO/8*DI/CAN1/CAN2/1*SPK/Volume+/-/4*RS232/4*RS485, 4 RS232 and RS485 converted by jump cap)
<b>Built in I/O interface</b>	1x DC9-36V power supply (1*4pin) 2x USB2.0 interface 2x 5Pin 1x SATA hard disk interface 1x Hard drive power supply interface 1x 4pin 1x LVDS interface 2x 15pin, supports dual channel 24bit 1x Screen backlight power supply interface 1x 6pin 2x Power amplifier interface (2 ohm 5W) 1x 4pin 1x Front panel function button and indicator light interface 2x 5pin 1x Touch interface (I2C) 1x 6pin, 0.6mm pitch 2x Gigabit network interface (choose one from RJ45), which can be used to connect external POE modules
<b>Power Type</b>	DC input voltage 9-36V

<b>GPIO</b>	Supports 8 input and 8 output DIO interfaces
<b>OS</b>	Android 12, Ubuntu 20.04 (used with VR58J core board)
<b>Working temperature</b>	-10℃~60℃
<b>Storage temperature</b>	-20℃~70℃
<b>Working Humidity</b>	5%-95% relative humidity, no condensation
<b>Dimension</b>	176 x 159 x 1.6mm (6-layer board, screw hole specifications: Ø3.2mm x 4)



**Ordering info:**

NO.	Model	Core Board	Processor	Frequency	Memory	eMMC	HDMI-OUT	HDMI-IN	LVDS	EDP	WIFI	LAN	USB	COM	Power
1	VR58J(VR58-H2) VER:1.0	VR58J	RK3588	2.4GHz	8G	64G	2	1	1	/	1	2	8	6	DC9-36V