

RK35 VER:1.0 Specification



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Model No.	RK35B VER:1.0
Processor	CPU Rockchip RK3568B2 Quad-core Cortex-A55 up to 2.0GHz Processor
Chipset	Base on RK3568B2 SOC
Memory	Onboard LPDDR4 4G memory (1GB/2GB/8GB optional)
Graphics	Integrated ARM Mali-G52 GPU,support OpenGL ES 1.1/2.0/3.2,OpenCL 2.0, Vulkan 1.1
	1*HDMI, 1*LVDS,1*EDP,1*MIPI
	Support dual-screen synchronous/asynchronous display
Network	1* RTL8211F Gigabit Ethernet , support wake on LAN
	1*WIFI/ bluetooth module
Storage	1* eMMC16G (8GB/32GB/64GB/128GB optional)
	1* TF card socket ,up to 64G
Audio	PMIC power management chip RK809-5 has its own sound card, which supports Line-out, MICK and power amplifier.
	The power amplifier supports 2 ω 5W dual channels.
Expansion slot	1* M.2 slot, support M.2 Key-B 4G/5G module
Back I/O	2* USB2.0, With LAN2 optional
	1* USB3.0
	1* HDMI
	1* Gigabit Ethernet connector, USB3 with LAN2 optional, 2 lan port optional
	1* Line-out (Green)
	1* MICK (purple)
	1* RS232 serial port, which can support RS485 function and can be selected by jumping.
	1* DC 12V power supply
Front I/O	1* TF card socket
	2* USB2.0
	1*SIM card socket
	1* power switch
Internal I/O	4*USB2.0,1*4pin
	6* RS232 serial ports , 1*4pin
	2* TTL serial ports , 1*4pin
	1* serial ports ,1*4pin support RS485/422

	1* Touch Panel ports, 6pin, FPC specification, used to connect the touch screen.
	1* MIPI ports, 40pin,FPC specification, used to connect MIPI screen.
	1*LVDS interface 2*15pin, supporting dual-channel 24bit.
	1* EDP, 2*15pin
	1* screen backlight power supply interface 1*6pin
	1* power amplifier interface (2 ω 5W) 1*4pin
	1* power amplifier interface (8 ω 1.3W) 1*2pin
	1* Front panel function buttons and indicator interface 2*5pin
	1* CAN Port, 1*2pin
	1* IRDA Port 1*4pin
Power input	DC 12V power input
Power input	DC 12V power input
OS	Android 11、Ubuntu20.04、debian10
Working Temp.	0℃~60℃
Storage Temp.	-20℃~70℃
Working Temp.	5%-95%(relative humidity; non-condensing)
Size	148mm x 102mm

Order information:

NO.	Model	Processor	Frequency	Memory	EDP	HDMI	LVDS	eMMC	WIFI	LAN	USB	COM	Power
1	RK35A VER:1.0	RK3568B2	2.0G	1G	1	1	2ch/24BIT	8G	1	1*8211F	9	8	DC12V
2	RK35B VER:1.0	RK3568B2	2.0G	2G	1	1	2ch/24BIT	16G	1	1*8211F	9	8	DC12V
3	RK35H VER:1.0	RK3568B2	2.0G	4G	1	1	2ch/24BIT	32G	1	1*8211F	9	8	DC12V
4	RK35E VER:1.0	RK3568B2	2.0G	4G	1	1	2ch/24BIT	64G	1	1*8211F	9	8	DC12V
5	RK35K VER:1.0	RK3568B2	2.0G	4G	1	1	2ch/24BIT	128G	1	1*8211F	9	8	DC12V