

Display Parameters	Size	12"					
	Resolution	1024*768					
	Screen Ratio	4:3					
	Brightness	500 nits (Optional high brightness)					
	Contrast Ratio	1000:1					
	Viewing Angle	85°/85°/85°/85° (L/R/U/D)					
	Backlight type	LED backlight screen, service life ≥ 50000H					
	Touch Screen	Capacitive (Resistive, or Non-touch options)					
Motherboard Model Selection		JWS64	JWS3288-I	JWS3399-MAIN-L	CX3399-A	CX3568-A	CX3588-A
System Architecture	CPU	A64 Quad-Core 1.5GHz	RK3288 Quad-Core 1.8GHz	RK3399 Six-Core 2.0GHz	RK3399 Six-Core 2.0GHz	RK3568 Quad-Core 2.0GHz	RK3588 Octa-Core 2.1GHz
	Core Architecture	Cortex-A53	Cortex-A17	Dual-Core Cortex-A72 + Quad-Core Cortex-A53	Dual-Core Cortex-A72 + Quad-Core Cortex-A53	Cortex-A55	Quad-Core Cortex-A76 + Quad-Core Cortex-A55
	GPU	Mali-T764	Mali-T764	Mali-T860 MP4	Mali-T860 MP4	Mali-G52 2EE	Mali G610 MP4
	Memory (DDR)	2GB (8GB optional)	2GB (4GB optional)	4GB	2/4GB	2GB (4/8GB optional)	4GB (8/32GB optional)
	Storage (eMMC)	16GB (32/64GB optional)	16GB (32/64/128/256GB optional)	32GB (64GB optional)	32/64GB (256GB optional)	32GB (64/128/256GB optional)	64GB (128/256GB optional)
	SATA	/	/	/	/	Support	/
	Operating System	Android 6.0	Android 7.1 / 10.0	Android 7.1 / 9.0 / 11	Android 7.1 / 9.0 / 11	Android 12	Android 13.0
		/	Linux 4.4	Linux 4.4	Linux 4.4	Linux 5.10	Linux 5.10
/		Ubuntu 18.04	Ubuntu 18.04	Ubuntu 18.04	Ubuntu 20.04	Ubuntu 20.04	
/		Debian 10.0	Debian 10.0	Debian 10.0	Debian 11.0	Debian 11.0	
Networking	Ethernet	1*10M/100M/1000M adaptive Ethernet					1*Gigabit Ethernet + 1*100 Mbit Ethernet
	4G	Optional. Based on the 4G module selection					
	5G	/	/	/	/	/	/
	WIFI	2.4G	Dual-band 2.4/5G	Dual-band 2.4/5G	Dual-band 2.4/5G	WIFI6, 2.4G	WIFI6, Dual-band 2.4/5G
	Bluetooth	BT5.0	BT5.0	BT5.0	BT5.0	BT5.2	BT5.0
Power	Power Input	12V DC	12V DC	12-36V DC	12-36V DC	12-36V DC	12-36V DC
	Adapter	12V / 4A	12V / 4A	24V / 2.5A	24V / 2.5A	24V / 2.5A	24V / 2.5A
Touch Function	Touch Interface	USB/IIC	USB	USB/IIC			
I/O Ports	USB	1*USB HOST, 1*USB OTG	1*USB HOST, 1*USB OTG	1*USB HOST, 1*USB OTG	1*USB, 1*OTG	2*USB3.0	1*USB, 1*OTG
	HDMI	1*HDMI, up to 4K	1*HDMI, up to 4K	1*HDMI, up to 4K	1*HDMI, up to 4K	1*HDMI, up to 4K	1*HDMI, up to 4K
	LAN	1*LAN	1*LAN	1*LAN	1*LAN	1*LAN	2*LAN
	DC	1*DC2.1	1*DC2.1	1*DC2.1	1*DC2.1	1*DC2.1	1*DC2.1
	COM	2*RS232+2*Reserved holes			1*RS232+1*Reserved hole		
	TF/SIM	1* TF/SIM slot	1*TF/SIM slot	1*TF/SIM slot	1*TF/SIM slot	1*TF/SIM slot	1*TF/SIM slot
	WiFi Antenna	1*WiFi Antenna	1*WiFi Antenna	1*WiFi Antenna+1*Reserved hole			
	Audio I/O	1*3.5mm Earphone Jack					
	Reset Button	1*UBOOT	1*UBOOT	1*UBOOT	1*UBOOT	1*UBOOT	1*UBOOT
	GND	1*GND	1*GND	1*GND	1*GND	1*GND	1*GND
	MICRO OTG	1*MICRO OTG	/	/	/	/	/
	1*12P Phoenix Terminal	/	/	/	1*DC	1*DC	1*DC
		/	/	/	1*RS232	1*RS232	1*RS232
		/	/	/	1*RS485	1*RS485	1*RS485
		/	/	/	1*TTL	1*CAN	1*CAN
/		/	/	3*GPIO	3*GPIO	3*GPIO	
I/O Expansion	Support						

Mechanical	Enclosure	Aluminum alloy housing
	Cooling System	Fanless
	Mounting	Desk stand, wall-hanging, VESA75/100mm, ceiling-mounted
Product Reliability	Working Temp	-10°C ~ 60°C
	Storage Temp	-20°C ~ 70°C
	Ambient Humidity	5% - 95% (relative humidity non-condensing)
	IP rating	Front IP65