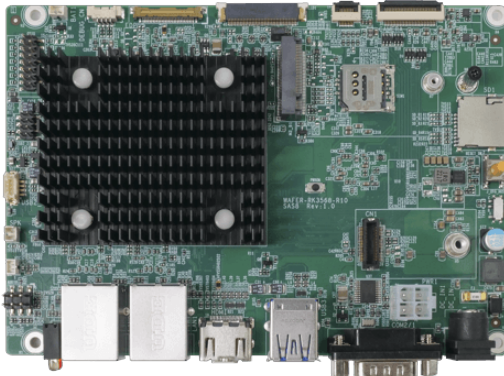


# WAFER-RK3568

3.5" SBC supports RK3568 with 2/4GB LPDDR4/X, 16/32GB eMMC. Triple display with HDMI™, MIPI and eDP. USB 3.0 x 2. Built-In USB 2.0 x 3. RoHS compliant



## Features

- » 3.5" SBC supports RK3568 processor motherboard, 2/4GB LPDDR4/4X RAM, 16/32GB eMMC flash;
- » 2 x 1GbE RJ45, 2 x (RS232 + RS485), 2 x USB 3.0 Type A, 3 x USB 2.0 HOST, HDMI™ 2.0, MIPI DSI, Edp and MIPI CSI
- » M.2 Slot, SD Card Slot
- » DC 12V
- » Debian 10 / Android 12
- » RoHS

## Specifications

System	
CPU	Rockchip RK3568 (Quad-code Cortex-A55 up to 2.0Ghz)
Supported OS	Android 12.0 , Linux Debian 10 (kernel 4.19)
Physical Characteristics	
Dimensions (LxWxH) (mm)	146mm x102mm
Storage	
Storage	eMMC : 16/32GB NAND Flash
	1 x M.2(NGFF)
	1 x SD/MicroSD card : Micro SD Slot
I/O Interface	
Display Output	1 x eDP : Up to 2560 x 1650@60Hz
	1 x HDMI™ : 2.0 Type A , Up to 4K
	1 x MIPI DSI : Up to 1920 x 1080@60Hz display output for single MIPI mode and 2560 x 1440@60Hz for dual-MIPI mode
Ethernet	LAN : 2 x 1GbE RJ45 By YT8521
Audio	1 x Line out : Line out, pin header
	1 x Mic (Wire to Board,WAFER 1 X2pin, DIP, 180°, P=1.25mm)
	1 x Speaker : 2pin Socket (1x 1.3W)
I/O Interface	External RS-422/485 : 1 x DB9 Port , 2 x (RS232+RS485)
	2 x External USB 3.2 Gen1x1 : USB 3.0 Type A (1x OTG,1x HOST)
	GPIO : 14-bit (7 in/7 out, pin header)
	1 x I²C (8pin, 90°, P=0.5mm)
	3 x Internal USB 2.0 : HOST (1 x 4 with FRAME,180° P=1.25mm, 2 x 4Pin pin header p= 2.0 mm)
	1 x MIPI : MIPI CSI 4 Lanes (30pin 0.5mm FPC)
Expansion	1 x M.2(NGFF) : B Key, Support 4G (3042) or 5G (3052) Module
	1 x Micro/Nano SIM (Nano SIM slot)
Wireless	
Wi-Fi	B TO B Connector ,Support IEI WIFI5/6 module
Bluetooth	B TO B Connector ,Support IEI BT V5.0 module)
Power	
Input	12V DC

Environment	
Operating Temperature	0°C ~ 60°C with air flow
Storage Temperature	-20°C ~ 70°C
Humidity	10% ~ 90%,no-condensing
Certifications	
Safety & EMC	EMC Class A
Watchdog Timer	
Watchdog Timer	Yes

## Ordering Information

WAFER-RK3568-R10	3.5" SBC with RK3568;4GB LPDDR4/4X;32GB eMMC;2× 1GbE RJ45;2x(RS232+RS485);2× USB 3.0 Type A;3× USB 2.0 HOST;HDMI™ 2.0;MIPI DSI、Edp and MIPI CSI;M.2 Slot;SD Card Slot;DC 12V;Debian10;RoHS
WAFER-RK3568-A-R10	3.5" SBC with RK3568 , 4GB LPDDR4/4X, 32GB eMMC, 2× 1GbE RJ45 , 2x(RS232+RS485), 2× USB 3.0 Type A, 3× USB 2.0 HOST, HDMI™ 2.0, MIPI DSI、Edp and MIPI CSI, M.2 Slot, SD Card Slot, DC 12V, Android12, RoHS
WAFER-RK3568-2/16GB-R10	3.5" SBC With RK3568 ,2GB RAM,16GB eMMC,2× 1GbE RJ45 ,2xRS232,2xRS485,2× USB 3.0 Type A,3× USB 2.0 HOST,1 × HDMI™ 2.0,MIPI DSI、Edp、MIPI CSI,M.2 B Key、Micro SD and SIM Slot,DC 12V,Debian10、RoHS

## Packing List

1 x WAFER-RK3568 single board	
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