

# HYPER-RK3566

Pico-ITX SBC with RK3566, 2/4GB LPDDR4/4X, 16/32GB eMMC, HDMI™ 2.0, MIPI DSI, LVDS, 1 x 1GbE RJ45, 1 x USB3.0, 3 x USB2.0, 2 x (RS232+RS485), Options: WI FI5/6 + BT, 12V DC IN, Debian 10 / Android 12, RoHS



## Features

- » Pico-ITX SBC with RK3566
- » Onboard 2/4GB LPDDR4/4X
- » Onboard 16/32GB eMMC
- » Support 1 x USB3.0 Host Type A
- » Support 1 x USB2.0 OTG Type A
- » Support 2 x USB2.0 Host Connector
- » Display Support 1 x HDMI™ 2.0, MIPI and LVDS
- » Support 1 x 1GbE RJ45
- » Support 2 x (RS232+RS485)
- » Support 8 bit-GPIO
- » Options: WIFI5/6 + BT
- » 12V DC IN
- » Debian10 / Android 12, RoHS

## Specifications

System	
CPU	Rockchip RK3566 (Quad-code Cortex-A55 Up to 1.8Ghz)
Memory	2/4GB LPDDR4/4X
Memory Max.	Up to 8GB (Option: 2GB Sku only support Linux)
Supported OS	Android 12.0, Linux Debian 10 (kernel 4.19)
Physical Characteristics	
Dimensions (LxWxH) (mm)	100mm x72mm
Net Weight	95g
Storage	
Storage	eMMC : 16/32GB Emmc NAND FLASH (Option:16GB Sku only support Linux)
	1 x SD/MicroSD card : Micro SD Slot
I/O Interface	
Display Output	1 x HDMI™ (Type A) - Android OS supports Dual-screen display of the same content; Debian OS supports single-screen display;
	1 x LVDS (SMD;30PIN;180°;P=1.25MM) - Android OS supports Dual-screen display of the same content; Debian OS supports single-screen display;
	1 x MIPI DSI : 4 Lanes (ZIF FPC; SMD; 40PIN; 180°, P=0.5mm) - Android OS supports Dual-screen display of the same content; Debian OS supports single-screen display;
Ethernet	1 x LAN : 1GbE RJ45 by YT8521
Audio	1 x Mic : 2PIN socket for MIC, Connectors; Wire toBoard; WAFER 1*2PIN; DIP; 2PIN; 180°; P=1.25mm 1 x Speaker : 2PIN socket for speaker (1.3W); WAFER 1*2 with frame; SMD; 2PIN; 180°; P=1.25mm
I/O Interface	1 x Console Port 2 x External RS-232/422/485 : RS-232+RS485, 2 x 5Pin Pin Header

	1 x External USB 2.0 : OTG Type A
	1 x External USB 3.2 Gen1x1 : USB 3.0 Gen1 HOST TypeA
	GPIO : 8-bit (4 in/4 out,pin header)
	1 x I <sup>2</sup> C : TP-I2C (8pin 2.0mm FPC)
	2 x Internal USB 2.0 : HOST with 1 x 4 FRAME,180°, P=1.25mm
<b>Wireless</b>	
Wi-Fi	(Optional) Wi-Fi 5/6 (B to B interface with IEI wireless module)
Bluetooth	(Optional) Bluetooth V5.0 (B to B interface with IEI wireless module)
<b>Power</b>	
Input	12V DC IN
<b>Environment</b>	
Operating Temperature	0°C ~ 60°C with air flow
Storage Temperature	-20°C ~ 70°C
Humidity	10% ~ 90%, no-condensing
<b>Certifications</b>	
Safety & EMC	EMC Class A
<b>Watchdog Timer</b>	
Watchdog Timer	Yes

## Ordering Information

HYPHER-RK3566-R10	PICO-ITX SBC with RK3566, 4GB LPDDR4/4X , 32GB eMMC, HDMI™ 2.0, MIPI DSI, LVDS, 1x1GbE RJ45, 1xUSB3.0, 3 x USB2.0, 2x(RS232+RS485), Options:WIFI5/6+BT, 12V DC IN, Debian10, ROHS
HYPHER-RK3566-A-R10	PICO-ITX SBC with RK3566, 4GB LPDDR4/4X , 32GB eMMC, HDMI™ 2.0, MIPI DSI, LVDS, 1x1GbE RJ45, 1xUSB3.0, 3 x USB2.0, 2x(RS232+RS485), Options:WIFI5/6+BT, 12V DC IN, Android12, ROHS
HYPHER-RK3566-2/16GB-R10	PICO-ITX SBC with RK3566, 2GB LPDDR4/4X , 16GB eMMC, HDMI™ 2.0, MIPI DSI, LVDS, 1x1GbE RJ45, 1xUSB3.0, 3 x USB2.0, 2x(RS232+RS485), Options:WIFI5/6+BT, 12V DC IN, Debian10, ROHS

## Packing List

1x HYPHER-RK3566 single board	
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