

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 ² C : TP-I2C (8pin 2.0mm FPC) |
| | 2 x Internal USB 2.0 : HOST with 1 x 4 FRAME,180°, P=1.25mm |
| Wireless | |
| 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) |
| Power | |
| Input | 12V DC IN |
| 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

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| 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

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| 1x HYPHER-RK3566 single board | |
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