Five Generation Android Industrial Computer

It adopts all-aluminum alloy structure, fanless and fully enclosed design scheme, low power consumption and compact shape. It is an industrial product specially designed for a variety of environments and can ensure long and stable work in harsh environments. It is equipped with RK3288 Cortex-A17 quad-core processor with Android 7.1 system, and the main frequency is up to 1.8GHz with super performance. Adopt Mali-T764GPU, support 1080P@60fpsh and 1080P@30fps decoding scheme, with a variety of high-definition display interface, to meet the field needs of a variety of application interfaces, to provide a variety of working efficiency, widely used in industrial control, military, communications, power, network and other automation fields.

Features »

- High precision full aluminum alloy body, fine texture
- Self-developed ARM architecture industrial-grade motherboard, suitable for a variety of complex applications
- RK3288 quad-core 1.8GHz high-performance CPU
- Rich interface, flexible expansion, easy installation
- Powerful open source attributes, breakthrough application limitations, support secondary development

RK3288	7*24H operation	EMC/EMC	Provide SDK	Rich interface	Android 7.1

ISO FC CE CCC RoHS

Product Model »

Product model	TPC02-202AIOT
Processor	RK3288 Cortex-A17 quad-core processor at 1.8GHz
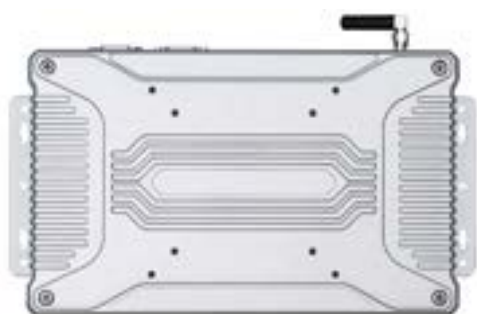
Front

Side

Back

Product Installation »

Desktop installation	Rack Mount
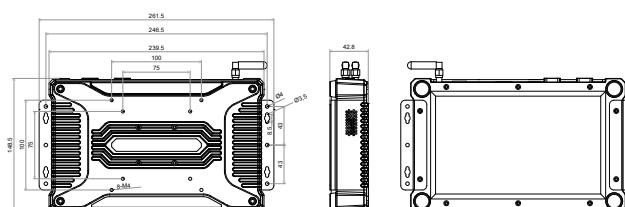
Product size »

Product Specifications »
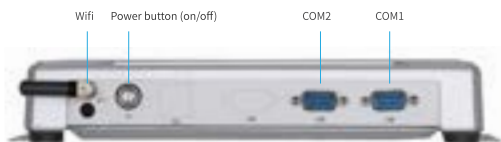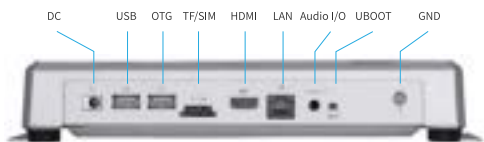
Hardware Configuration

CPU	RK3288 Cortex-A17 quad-core processor at 1.8GHz
GPU	Mali-T764GPU
Memory	Standard 2G (optional 4G)
Storage	Standard EMMC 16G (optional 8/32/64G, maximum support 64G)
3G Module	PCI-E standard interface, support for mobile, Unicom, telecom (optional)
4G Module	PCI-E standard interface, support for mobile, Unicom, telecom (optional)
WiFi	Built-in dual-band WIFI, 2.4G+5G
Bluetooth	BT4.2
Operating System	Android 7.1/10.0/12.0/Linux4.4/Ubuntu18.04/Debian10.0/linux4.4+QT
GPS	Optional
MIC	Optional
RTC Real Time Clock	Support
System Upgrade	Support local SD,USB upgrade

Interface parameters

DC Port	1*DC 55*21, support 12V power input
HDMI	1*HDMI OUT, support HDMI data output, maximum support 1080P
USB	1*USB-HOST, 1*USB-OTG
LAN	1*10M/100M/1000M Adaptive Ethernet
Headphone Stand	3.5mm standard connector
SIM	1*SIM, SIM card standard interface Support various standards (depending on 3G/4G module)
TF	Support TF expansion card (1*TF card slot)
RS232	1*232 serial port, 2* TTL/232 serial port optional
RS485	Optional
RS422	Optional
GPIO	8*GPIO (input/output)

Reliability parameters

Temperature	Operating temperature: -10 °C ~60 °C,Storage temperature: -20 °C ~70 °C
Working humidity	Humidity: 95% non-condensing
Vibration Protection	IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
Impact Protection	IEC 60068-2-27, half sine wave, 11ms duration
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

Other parameters

Power input	12V power input
Static power consumption	24W
Fuselage Material	All aluminum alloy
Body color	Technology silver, classic black
Bare Machine Weight	1.2KG
Overall weight	1.6KG
Installation method	Support desktop and rack installation
Warranty policy	Three years (one year free warranty)

Product Installation »

DC   USB   OTG TF/SIM HDMI   LAN Audio I/O UBOOT   GND

Wifi   Power button (on/off)   COM2   COM1

Five Generation Android Industrial Computer

Slimmer body, more powerful performance, designed for high-end automation field. All-aluminum alloy architecture, multiple industrial-grade protection, to deal with a variety of harsh use environment. Equipped with six-core 64-bit RK3399 high-performance processor, powerful open source attributes to support higher-level expansion and upgrade applications. Perfectly adapted to the needs of industrial control, military, communications, power, network and other intelligent automation applications, providing customers from all walks of life with mature customized solutions.

Features »

- High precision full aluminum alloy body, fine texture
- Self-developed ARM architecture industrial-grade motherboard, suitable for a variety of complex applications
- RK3399 six-core 64-bit 2.4GHz high-performance CPU
- Rich interface, flexible expansion, easy installation
- Powerful open source attributes, breakthrough application limitations, support secondary development

| RK3399 | 12V-36V | EMC/EMC | Provide SDK | Rich interface | Android 7.1 |

ISO FC CE CCC RoHS

Product Model »

Product model	TPC02-302AIOT
Processor	RK3399 Dual Large Core Cortex-A72 + Quad Small Core Cortex-A53 64-bit,1.8GHz

Front   Side   Back

Product Installation »

Desktop installation   Rack Mount

Product size »

Product Specifications »

Hardware Configuration

CPU	RK3399 Dual Large Core Cortex-A72 + Quad Small Core Cortex-A53 64-bit,1.8GHz
GPU	Mali-T764GPU
Memory	Standard 4G (optional 2G/8G)
Storage	Standard EMMC 32G (optional 16G/64G, maximum support 64G)
3G Module	PCI-E standard interface, support for mobile, Unicom, telecom (optional)
4G Module	PCI-E standard interface, support for mobile, Unicom, telecom (optional)
WiFi	Built-in dual-band WIFI, 2.4G+5G
Bluetooth	BT5.0
Operating System	Android 7.1/9.0/11/Ubuntu18.04/Debian10.0/linux4.4+QT
GPS	Optional
MIC	Optional
RTC Real Time Clock	Support
System Upgrade	Support local SD,USB upgrade

Interface parameters

DC Port	1*DC 55*21 with thread, can support 12V-36V wide voltage power supply
HDMI	1*HDMI OUT, support HDMI data output, maximum support 1080P
USB	1*USB-HOST, 1*USB-OTG
LAN	1*10M/100M/1000M Adaptive Ethernet
Headphone Stand	3.5mm standard connector
SIM	1*SIM, SIM card standard interface Support various standards (depending on 3G/4G module)
TF	Support TF expansion card (1*TF card slot)
RS232	2*RS232
RS485	1*RS485
TTL	2*TTL
GPIO	8*GPIO (input/output) (upgradeable)

Reliability parameters

Temperature	Operating temperature: -10 °C ~60 °C,Storage temperature: -20 °C ~70 °C
Working humidity	Humidity: 95% non-condensing
Vibration Protection	IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
Impact Protection	IEC 60068-2-27, half sine wave, 11ms duration
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

Other parameters

Power input	12V-36V power input
Static power consumption	24W
Fuselage Material	All aluminum alloy
Body color	Technology silver, classic black
Bare Machine Weight	1.2KG
Overall weight	1.6KG
Installation method	Support desktop and rack installation
Warranty policy	Three years (one year free warranty)

Product Installation »

Five Generation Android Industrial Computer

Slimmer body, more powerful performance, designed for high-end automation field. All-aluminum alloy architecture, multiple industrial-grade protection, to deal with a variety of harsh use environment. High-performance version equipped with octa-core 64-bit RK3588 high-performance processor, powerful open source attributes to support higher-level expansion and upgrade applications. Perfectly adapted to the needs of industrial control, military, communications, power, network and other intelligent automation applications, providing customers from all walks of life with mature customized solutions

Features »

- High precision full aluminum alloy body, fine texture
- Self-developed ARM architecture industrial-grade motherboard, suitable for a variety of complex applications
- RK3588 octa-core 64-bit 2.4GHz high-performance CPU
- Rich interface, flexible expansion, easy installation
- Powerful open source attributes, breakthrough application limitations, support secondary development

| RK3588 | 12V-36V | EMC/EMC | Provide SDK | Rich interface | Android 12.0 |

ISO FC CE CCC RoHS

Product Model »

Product model	TPC02-500AIOT
Processor	RK-3588 4*A76(MAX2.4G)+4*A55(MAX1.8GHz)
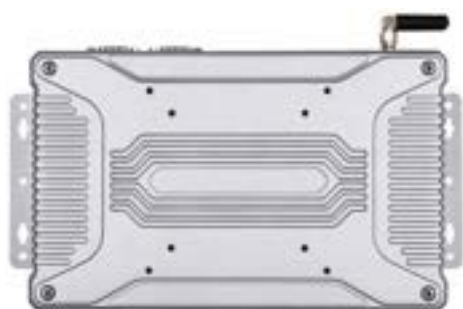
Front

Side

Back

Product Installation »

Desktop installation

Rack Mount

Product size »

261.5
246.5
239.5
100
75
42.8
148.5
100
75
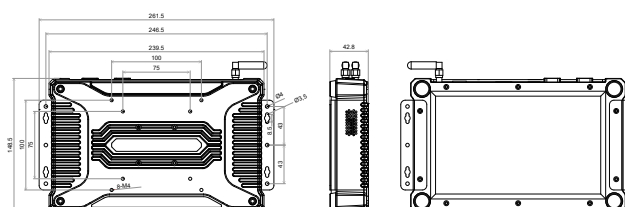
Product Specifications »

Hardware Configuration

CPU	RK-3588 4*A76(MAX2.4GHz)+4*A55(MAX1.8GHz)
GPU	Mali-G610 MC4
NPU	6TOPS AI computing power
Memory	8G LPDDR4X
Storage	64G EMMC
SATA	1 SATA hard drive interface
Built-in ROM	4KB EEPROM
WiFi	2.4G+5G WIFI6
Bluetooth	BT5.0
Operating System	Android 12
Decoding Resolution	Supports up to 8K/60HZ
4G/5G	4G module interface for Mini-Pcie, M.2 5G module interface
Network Support	4G, 5G, Ethernet, WiFi/Bluetooth support, wireless peripheral expansion

Interface parameters

DC Port	1*DC 55*21 with thread, can support 12V-36V wide voltage power supply
HDMI OUT	1*HDMI OUT, support HDMI data output, maximum support 1080P
HDMI IN	1*HDMI IN, support HDMI data input, maximum support 1080P
USB	1*USB OTG, 3*USB3.0
LAN	2*10M/100M/1000M Adaptive Ethernet
Headphone Stand	3.5mm standard connector
SIM	1*SIM, SIM card standard interface Support various standards (depending on 3G/4G module)
TF	Support TF expansion card (1*TF card slot)
GPS	External GPS (optional)
COM	The whole machine is equipped with 2 * RS232 interface; the motherboard comes with 5 * serial sockets (1 * RS232, 1 * 485, 1 * TTL, 2 * RS232/TLL switching sockets)

Reliability parameters

Temperature	Operating temperature: -10 °C ~60 °C,Storage temperature: -20 °C ~70 °C
Working humidity	Humidity: 95% non-condensing
Vibration Protection	IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
Impact Protection	IEC 60068-2-27, half sine wave, 11ms duration
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

Other parameters

Power input	12V-36V power input
Static power consumption	24W
Fuselage Material	All aluminum alloy
Body color	Technology silver, classic black
Bare Machine Weight	1.2KG
Overall weight	1.6KG
Installation method	Support desktop and rack installation
Warranty policy	Three years (one year free warranty)

Product Installation »

DC 12-36V   USB3.0   HDMI OUT HDMI IN   LAN   Audio I/O   UBOOT TF/SIM   GND   Power button (on/off)   COM2   COM1