

# QY-J10101A Android Tablet Product specification

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# **Technical Support**

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# Information update and access

## 1. Information Updating

Product-related information will be constantly improved and updated. When you use these contents, please make sure that it is up to date.

# 2. Update Notification

Qiyang product information updates will be notified via WeChat public account, so stay tuned!



## 3. How to obtain information

After purchasing, please contact the relevant sales staff of our company to obtain it.



# **Version Records**

Version	Hardware	Description	Date	Reviser
1.0	QY-J10101A	Internal version	2021-06	WWX
2.0	QY-J10101A	Update picture	2021-08	WWX





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#### Notice: This manual introduces the hardware interface of the mainboard.

#### I. Preface

## 1.1 Company Profile

Zhejiang Qiyang Intelligent Technology Co., Ltd., established in 2007, which locates in Hangzhou, Zhejiang, PRC. It is a high-end technological enterprise that specializes in exploitation, fabrication, and selling embedded computer mainboards. With 10 years of experiences, Qiyang has established the completed service chain from the design concept to mass production successfully.

The R&D team is organized by 30 more technical engineers. Qiyang focus on providing functional embedded hardware, software tool and customization solutions. It has been applied to Industrial Control, Internet of Things, New Retail, Smart Medical, Electricity Device, Environmental Surveillance, Charging Pile etc.

With the growth of the business, Qiyang has set up an SMT factory in Zhuji, Zhejiang province, which is 5000 m², with a 2xSMT production line. The SMT factory performs the ISO9001 Quality Management System strictly. Relying on the solid production ability, the SMT factory's annual capacity is about a million sets, which totally guarantee the delivery date.

Qiyang has a thorough sales marketing network, professional sales ,and after-sales team to provide full technical support and service. The business has spread over 120 countries and areas, it helps the clients to introduce the products into the market efficiently and successfully. The combination and extension of research and development, production capacity, and market, that provide a solid foundation for Qiyang to provide specialized, globalized embedded hardware and software.

# 1.2. QY-J10101A Android Tablet Use Suggestion:

- 1. Please read the instructions first before using the development board;
- 2. Please check the packing list and see whether there is a missing file before using the development board:
- 3. Please understand the basic structure and composition of board, including the allocation of hardware resource, etc.
- 4.QY-J10101A tablet accept batch order.













# QY-J10101A Tablet

- Based on RK3288 quad-core processor, ultra-high performance
- Mali-T764 GPU, support Open GL ES1.1/2.0/3.0, OpenVG1.1, OpenCL, Directx11
- Support 4G, Wi-Fi, Bluetooth, Ethernet communication
- HD display, resolution up to 1280\*800
- 2 RS232 serial ports, 1 RS485 serial port (\*optional)
- Metal shell, flat design



#### **II. Product Introduction**



#### Smart chip, powerful core

Based on Rockchip RK3288 quadcore processor, clocked at 1.8GHz, integrated Mali T764 GPU, can realize 4K\*2K H.264 and H.265 video hard decoding



#### Rich peripheral interface

Integrated with the interfaces, such as USB, serial port, MIPI, MINI PCI-E, Ethernet, audio, camera, SIM, etc.



# Strong communication and transmission capabilities

Onboard BT/Wi-Fi module, itself is with 3 serial ports, 1-ch 100M Ethernet port, reserved MINI PCI-E, 4G module can be connected (\*optional)



#### IPS screen HD display

10.1 inch full-fit IPS high-definition screen with 1280\*800 resolution, full-view high-definition display, vivid color reproduction, clear and smooth picture, support for multi-touch, sensitive and stable touch

Provide all source code, technical information and development tools, easy and convenient to develop



#### Metal plate housing

38 steps process , frosted surface treatment , fanless design, efficient thermal conductivity

#### Easily use and develop

Any question, please send E-mail: <a href="mailto:supports@qiyangtech.com">supports@qiyangtech.com</a>
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# **III. Specifications**

•		
Screen	Size	10.1 inches, full viewing angle
oci een	Resolution	800*1280 HD resolution
	Brightness	450 CD/M <sup>2</sup>
	Touch	Capacitive touch screen
Performance	SOC	Rock Chip RK3288
Parameter	CPU	Quad-core Cortex-A17 processor, clocked at 1.8GHz
	GPU	Mali-T764 GPU, support AFBC (frame buffer compression) Support OpenGL ES1.1/2.0/3.0, OpenCL, Directx9.3 Embedded high-performance 2D acceleration hardware
	VPU	Support 4K 10bits H265/H264 video decoding 1080P multi-format video decoding (VC-1, MPEG-1/2/4, VP8) 1080P video encoding, support H.264, VP8 format
	RAM	2GB DDR3
	ROM	8GB eMMC, compatible with 16GB eMMC/32GB eMMC
	Wireless Network	2.4GHz Wi-Fi, support 802.11 b/g/n protocol Support BT4.2 4G LTE network (optional)
	Network	10/100Mbps adaptive Ethernet
	Speaker	8Ω2W speaker
	MIC	Digital audio microphone (optional)
	Camera	2 million pixel camera (optional)
	4GLTE module (Optional)	Support 4G LTE full Netcom
	(optional)	Baud rate support 9600bps~115200bps
	Communication Interface	RS232 serial port x2 (optional), baud rate supports 9600bps~115200bps
		RS485x1 (optional), baud rate supports 9600bps~115200bps
Hardware	Power connector	DC 5.5mm*2.5mm (DC12V Input)
interface	Headphone jack	3.5mm headphone jack
	Ethernet interface	RJ45 10/100Mbps Ethernet
	US Interface	USB 2.0 Hostx4、USB 2.0 OTGx1
	UART	UART-TTLx1
	SIM card slot	SIM card slot
	Indicator	Power indicator x1, system operation indicator x1
System Software	Operation System	
Oysteili Sultwale		Support支持Android5.1/Android7.1
Electrical	OTA Upgrade Power Input	Support OTA upgrade DC12V-2.5A
Characteristics	Operational Temperature	-10℃ ~ +60℃
	Storage Temperature	-20℃ ~ +70℃
	Humidity	5%~95%, Non-condensing
	Power consumption	About 12W
	1 over consumption	/ NOUL IZVV

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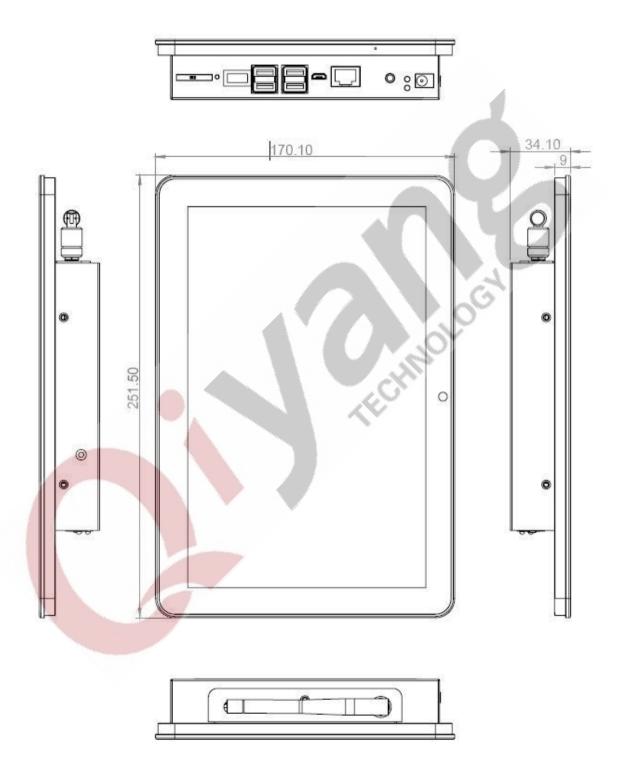


Others	Size	251.50mm*170.10mm*34.10mm
	Weight	1.2Kg
	Material	Galvanized sheet + aluminum profile
	Protection Level	IP50 protection design of the whole machine
	Installation Mode	Flush installation, wall installation, bracket
		installation



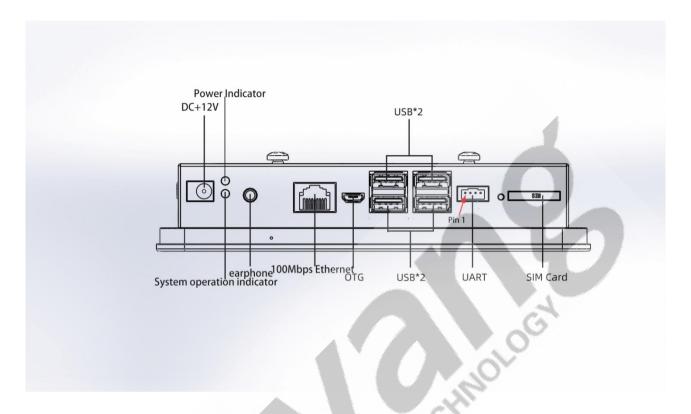


## IV. Structure & Size





# V. Pin Definition

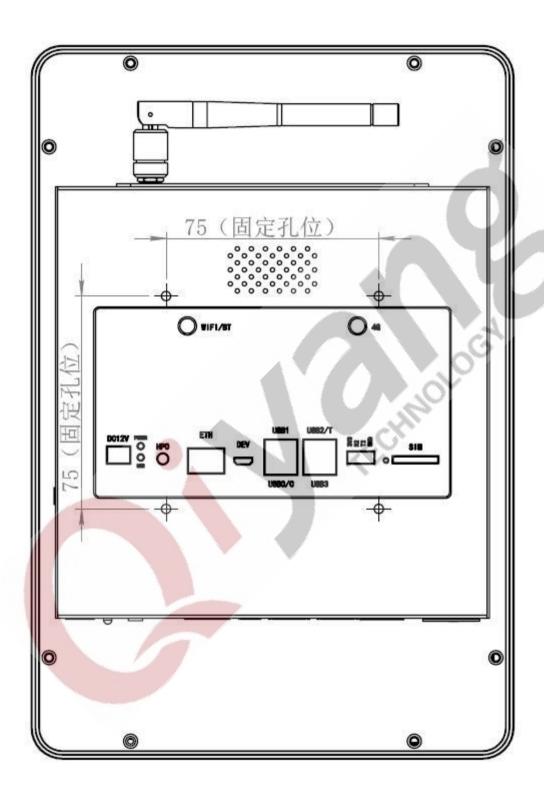


#### **UART-TTL** -Pin Definition

PIN#	PIN Definition	Description
1	VCC_IO_3V3	3.3V
2	UART1_RXD	UART-TTL level
3	UART1_TXD	UART-TTL level
4	GND	



# VI. Installation method





# VII. Application area

It is widely used in smart cabinets, new retail, self-service terminals, smart factories, IoT gateways, food safety, smart medical, robotics, power equipment, smart agriculture and other industries.





# **VIII. Shipping List**



# **Selection List:**

Nos.	Model No.	Function Description
1	QY-J10101A	Wi-Fi
2	QY-J10101B	Wi-Fi+4G
3	QY-J10101C	Wi-Fi+Camera+MIC
4	QY-J10101D	Wi-Fi+4G+Camera+MIC



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