



QYP101R3CA Tablet

Product Specification

Version: V1.0
2026. 04



Technical Support

If you have questions about the documents, you can contact us during office hours (Monday to Friday 8:30-12:00, 13:30-17:30)

Contact us at

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Official website: www.qiytech.com(Chinese) /www.qiyangtech.com(English)

Information updates

1、Information updates

Product-related manuals and datasheets are constantly being improved and updated; please ensure that they are up-to-date when you use them.

2、Update Notification

Qiyang's newest product information and news updates will be released through the WeChat official account, please pay attention!



3、Data Acquisition

After purchasing the product, please contact our business personnel to obtain it.

Version Record

Version	Hardware	Description	Date	Revised by
1.0	RK3506	Initial Release	2026-04	Liucf

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Note: This manual primarily introduces the hardware interfaces of the board.

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 5000m², 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 over 2000 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.

We offer:

- **Software/Hardware Mainboard**

Based on the CPU solution from NXP, Rockchip, MTK, Renesas, TI, Atmel, Cirrus Logic etc. Qiyang provides the ARM development kit/system on module/industrial board and periphery products, paired tools and software for the user do further exploitation.

- **Customization Service**

Fully taking the advantage of the technical accumulation on the ARM platform and Linux, Android, Ubuntu OS, Qiyang provides the efficient OEM/ODM service to the users.

Sincerely thanks for using Qiyang's product, we will try our best to offer you the technical supports!

1.2、 Usage suggestions:

- 1) Before using the development board, be sure to read the hardware manual first;
- 2) Please check the packing list carefully before use and check whether there are any missing files;
- 3) understand the basic structure and composition of the development kit, including the allocation of hardware resources, the definition of each pin of the core board and the carrier board, and the definition of the expansion pins, etc.;
- 4) 7 Inch, 10.1 Inch, 15.6 Inch, 21.5 Inch are also available, we accept batch order.

II. Product Overview



III. Parameters

Screen	Size	10.1 inches, full viewing angle
	Resolution	1024*600
	Brightness	400 CD/M ²
	Touch	Resistive touch screen
Performance Parameter	SOC	Rock Chip RK3506
	CPU	Tri-Core ARM Cortex-A7 @ up to 1.2 GHz
	RAM	256MB DDR3
	ROM	256 Nand Flash or 4/8GByte eMMC
	Wi-Fi	2.4GHz Wi-Fi, support 802.11 b/g/n protocol
	Ethernet	10/100Mbps adaptive Ethernet
	Speaker	Supports built-in speaker up to 8Ω3W
	RTC	Support
	Watchdog	Hardware Watchdog
	UART	RS232x2, baud rate supports 1200bps~115200bps
		RS485x2, baud rate supports 1200bps~115200bps
	MIC Input	Digital Microphone Input
Hardware Interfaces	Power	2Pin 5.08mm Phoenix Terminal Connector
	Ethernet Interface	RJ45 10/100Mbps Ethernet
	USB	USB 2.0 TypeAx1、USB 2.0 TypeBx1
	RS232	DB9 (RS232x2)
	RS485	DB9 (RS485x2)
	LED Indicators	Power Indicator x1 (Red), System Operation Indicator x1 (Green).
System Software	System Software	Support Linux
	Debugging	ADB Debugging Supported
Electrical Characteristics	Power In	DC24V-2A (Recommended)
	Operating Temperature	-10°C ~ +60°C
	Storage Temperature	-20°C ~ +70°C
	Operating Humidity	5%~95%, (Non-condensing)
	Power Consumption	Approx. 10W
Others	Size	270mm x 212mm x 34.5mm
	Weight	0.6Kg
	Material	Engineering Plastics
	Protection Level	IP50 protection design of the whole machine

Any question, please send E-mail : supports@qiyangtech.com

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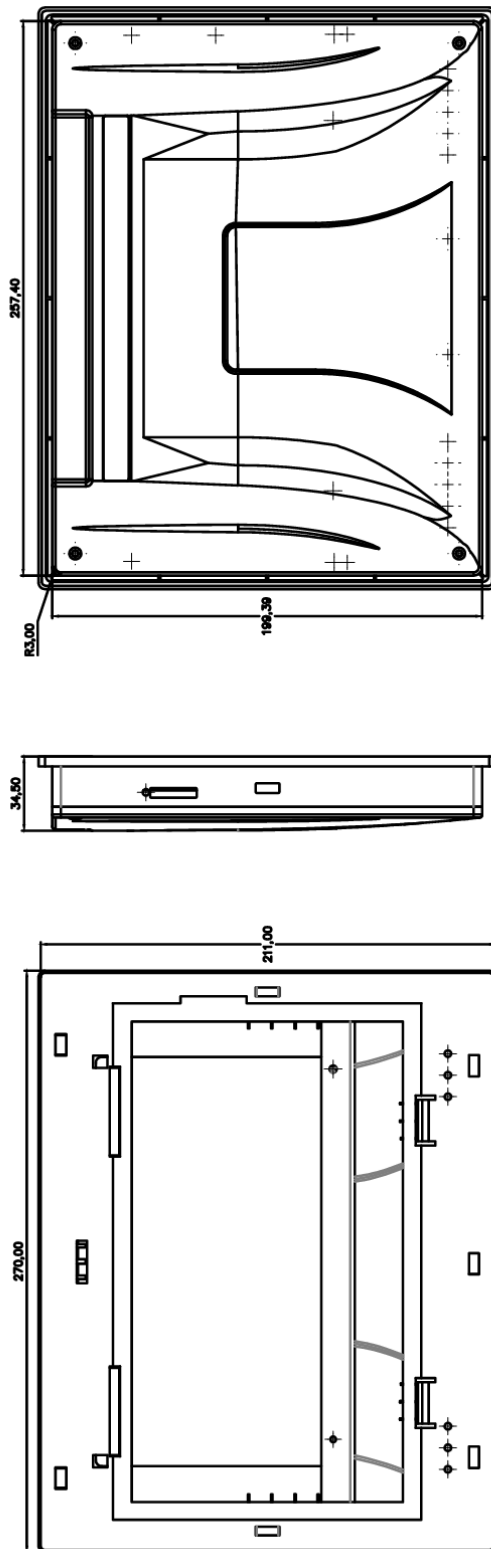
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	Installation Mode	Panel Mount / Flush Mount
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IV. Structure & Size



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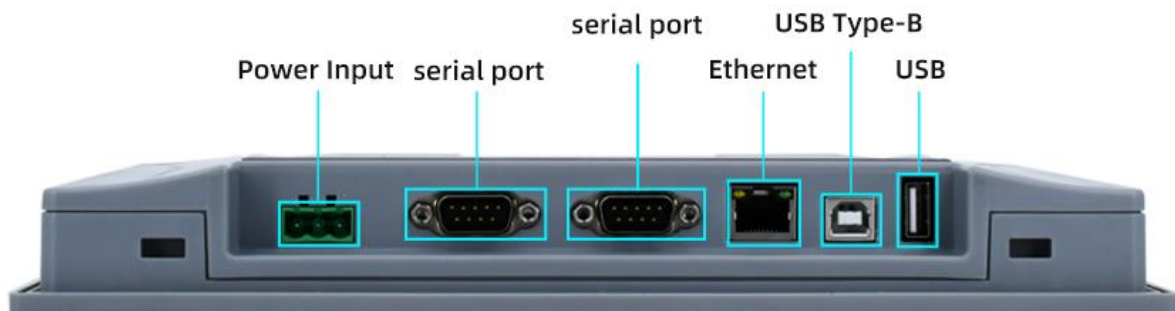
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V. Interface Definitions

Front Side



Reference Pictures :





RS232/RS485 Pin Definition

No.	Pin Definition	Description	Device Node
1	NC	COM1	/dev/ttyS1
2	RXD		

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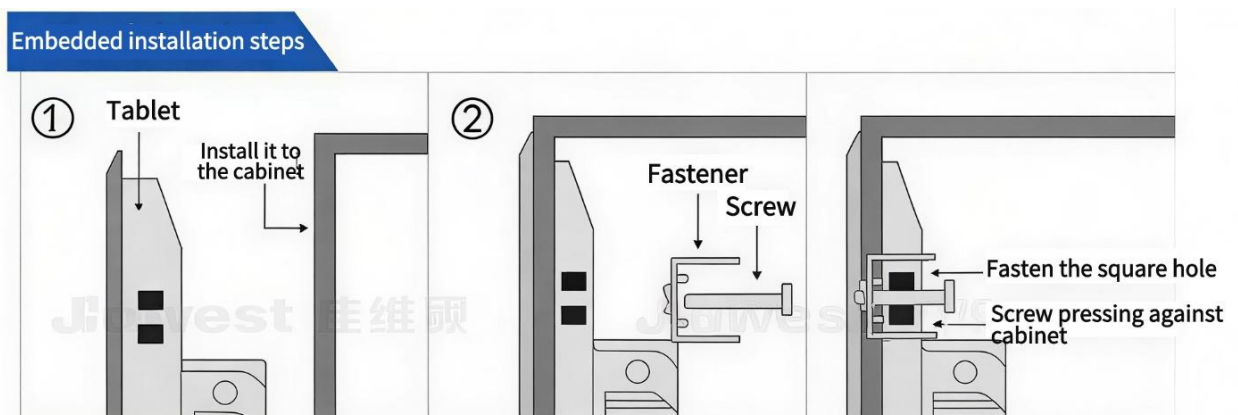
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3	TXD	COM2	/dev/ttyS2
4	NC		
5	GND		
6	NC	COM3	/dev/ttyS3
7	A/+	COM4	/dev/ttyS4
8	B/-		
9	NC		

VI. Installation Mode

Installation Instructions:



VII. Applications

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

Shipping List

Item No.	Description	Specification	Qty	Remark
1	10.1 Inch Tablet	Model No.: QYP101R3CA	1	
2	Mounting Clamps	Dual-Hook Clamp + M3 Screws	4	
3	Certificate of Quality		1	
4	Packaging Box		1	

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