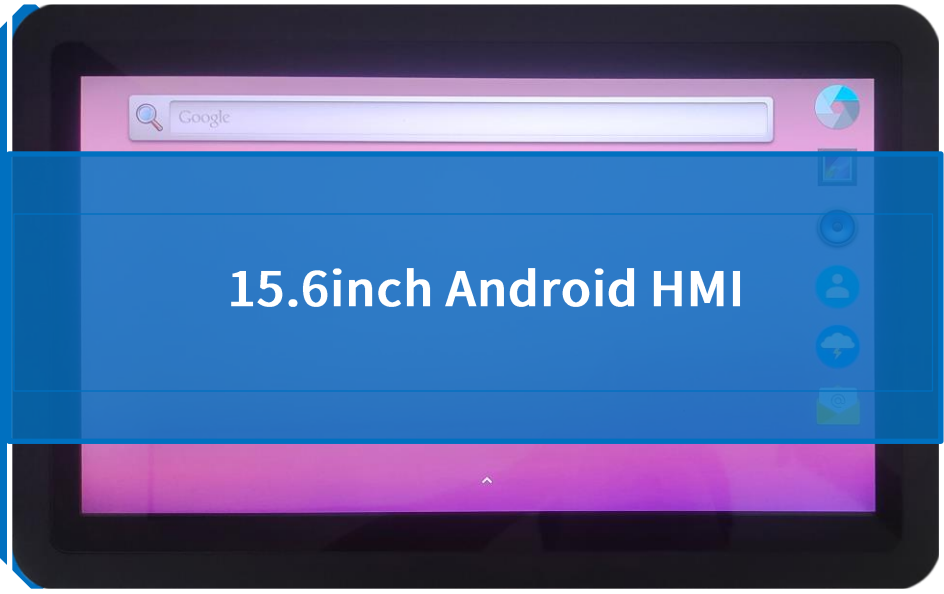
恒天伟业
HCC GROUP

H156K1W



15.6inch Android HMI

Product Specification

(RK3288)

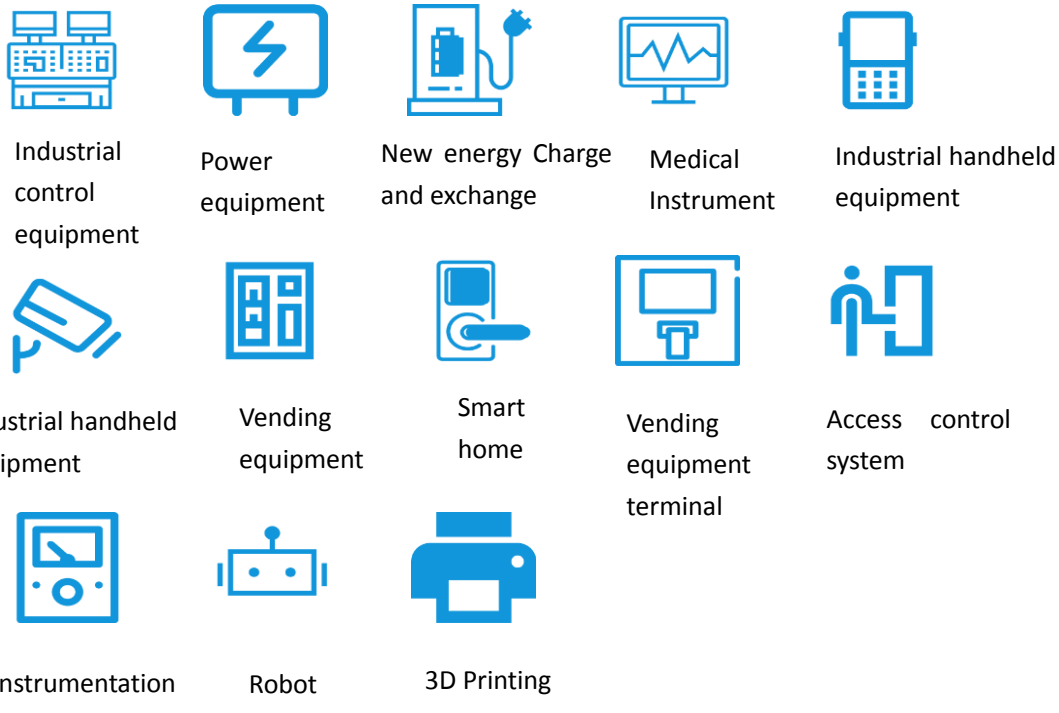
Product description

H156K1W series, an industrial Android touch display intelligent terminal R&D by 4 core A17 hardware platform, equipped with Android 7.01 operating system and a powerful human-machine interaction system with a 15.6 inch full-view LCD and capacitive touch screen. The product has a light, thin and flat appearance, high overall fit and easy installation, and can be used in indoor and semi-outdoor environments.

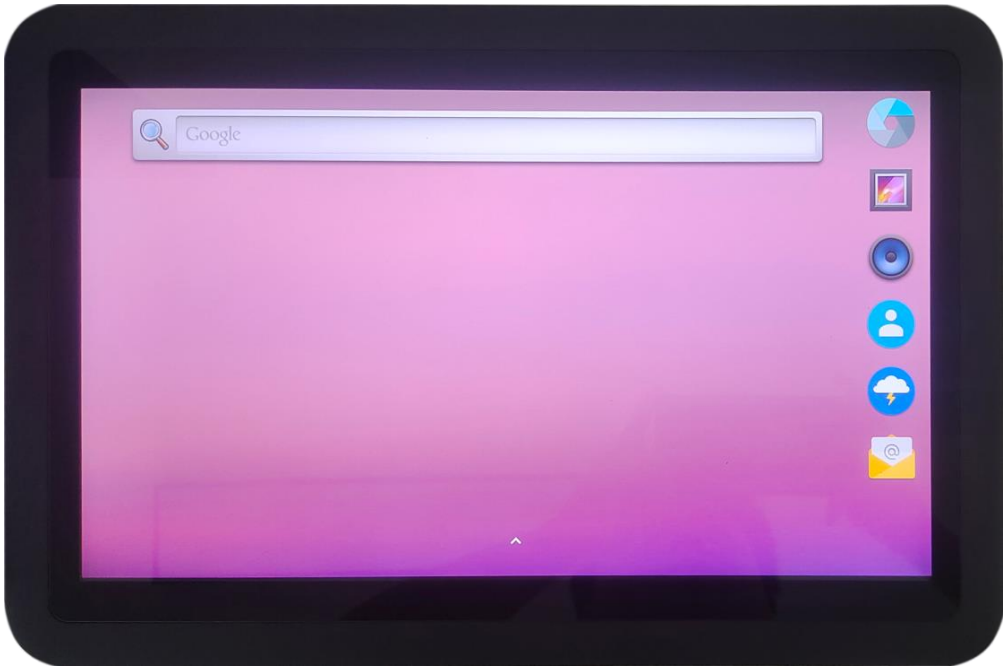
Product advantages

☑ Android 7.01 operating system, compatible with 99% industry application software, supports independent design APK Program installation.
☑ Support WIFI/4G/Ethernet and other networking methods to enable remote data transmission, upgrade and update
☑ Supports RS232, RS485, and other communication interfaces for exchanging information with external devices.
☑ Support 1080P language calls and 2 million dual camera.
☑ Support voice and video play.
☑ Industrial-grade capacitive touch solution, stronger anti-interference, widely used in a variety of complex industrial scenarios.
☑ Industrial embedded installation design, suitable for various industries.
☑ Passed CE/ROHS certifications and has stable and reliable guarantee.

Industry Applications



Product illustration



Front view

Product parameters

Screen parameters	Data	Explain
Screen size type	15.6inches	Screen ratio 16:9
Resolution	1920*1080pixels	16,700,000 true color display
Color	16,700,000colors	-
Display size (A.A.)	403.2(W)*261.2(H)*45(T)mm	-
Size of the whole machine		
Backlight brightness	275 nit	Screen brightness adjustment
Perspective (CR>10)	Full perspective	Panel type: IPS
Backlight life (hours)	30000Hrs	LED backlight

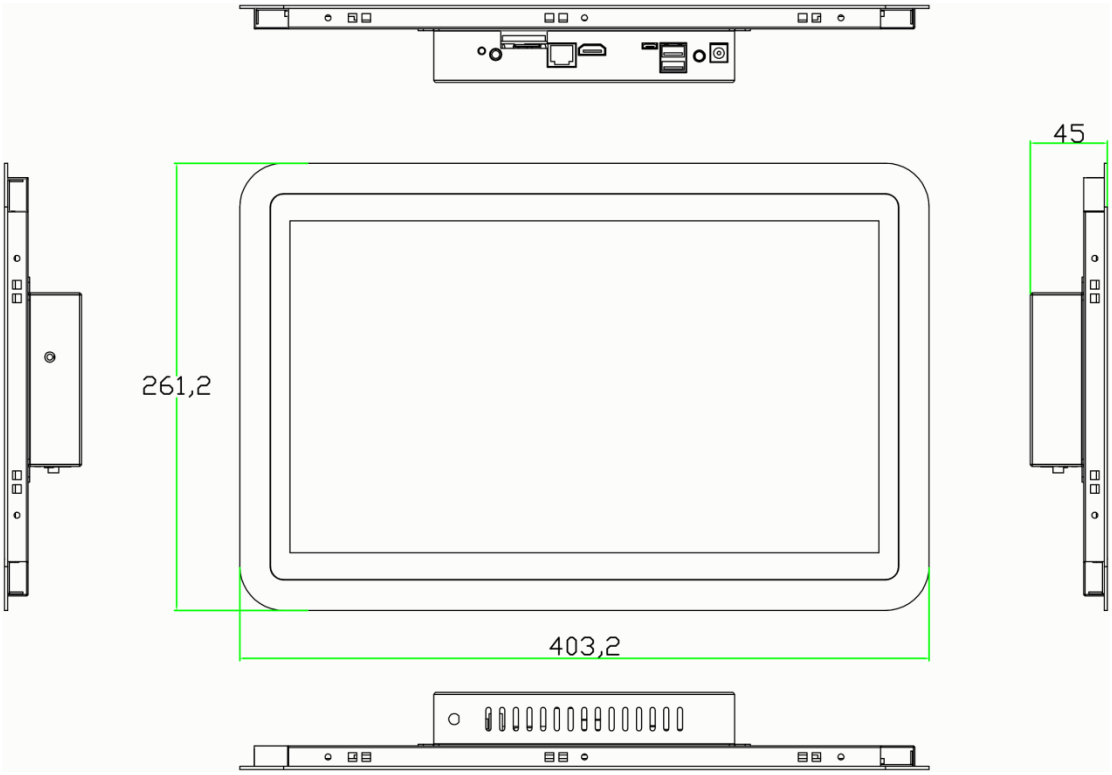
Motherboard core parameters	Data	Description
CPU processor	Rockchip RK3288	4 Cortex-A17 1.8 GHz
Operating system	V7.01	Typical value
Running memory	2GB	4*512MB, DDR3（4G available）
EMMC	8GB	EMMC5.1（32G available）
Touch form	5-point capacitive type and single-point optional	-
TP surface hardness	7	Mohs hardness
TP light transmittance	> 85	-
Operating voltage and current	12V（Typical value）900mA	Minimum 8V, maximum 24V, recommend 12V 2A or more DC regulated power supply
Power interface	DC005；	

Interface parameters	Data	Description
Interface	Default first interface: RS232	Serial port 1, port number:ttyS1
	Default second interface: RS232	Serial port 2, port number:ttyS2
	Default first interface:RS485	Serial port 3, port number:ttyS3
	Default second interface:RS485	Serial port 4, port number:ttyS4
	Maximum baud rate:115200	
USB	Maximum baud rate:115200	Supports 2 megapixels if connected to a USB
Audio	1 channel mono MIC/dual channel HPO (3.5mm earphone), 2 channels mono SPK (4Rx3W)	
TF card	1 road	Maximum 64G
Ethernet	1 road	10/100M adaptive network interface
WIFI	1 road	IEEE 802.11Bb/g/n, 2.4G； *5G Optional*
Blue tooth	1 road	V4.0
4G module	Full Netcom	*Optional*

Environmental parameters

Type	Project	Specification parameter
Working temperature test parameters	Storage temperature	-30 ~ 80℃
	Working temperature	-20 ~ 70° C
	Relative humidity	10~90% RH
Reliability parameters	EMC	Class B, EN55032
	ESD	Level 3

Product Size Diagram



【Hardware interface description】

Description of power supply and serial port communication

Terminal	Terminal Screen Printing	Definition	Description	Remarks
DC005	DCIN	-	Min 8V, Max 24V, Typical 12V 700mA	
2EDG-3.81-10P	RS232-TX1	TX1	Software Identification Port ttys1	Default interface 1 output at RS232 level; can also be changed to RS485 level by Bom
	RS232-RX1	RX1		
	GND	GND	Place of external export	
	RS232-TX3	TX3	Software Identification Port ttys3	Default interface 3 output at RS232 level;can also be changed to RS485 level by Bom
	RS232-RX3	RX3		
	GND	GND	External 12V ground output	
	RS232-TX2	TX2	Software Identification Port ttys2	Default interface 3 output at RS232 level;can also be changed to RS485 level by Bom
	RS232-RX2	RX2		
	RS232-TX4	TX4	Software Identification Port ttys4	Default interface ttys4 is output at RS232 level; it can also be changed to RS485 level by Bom
	RS232-RX4	RX4		
CAN Terminal	CANH	CAN High		-
	CANL	CAN Low		-
	GND	GND		

Audio Part

Terminal	Terminal Screen Printing	Definition	Description	Remarks
Horn left	L	Left channel horn positive	4 ohm 3W horn	PH2.0MM-2P Terminal
	L	Left channel horn positive		
Horn right	R	Left channel horn positive	4 ohm 3W horn	PH2.0MM-2P Terminal
	R	Left channel horn positive		

4G SIM Card Holder

Terminal	Terminal Screen Printing	Definition	Description	Remarks
4G Card Holder	-	Standard large card	Flip-top	Can support

Burning Key

Terminal	Terminal Screen Printing	Definition	Description
Burning Key	BOOT	-	After installing the Phoenix tool on your computer and installing the driver with 360 Mobile Assistant; press and hold the BOOT button, plug in the power and power on, release the button after 3 seconds; plug in the MINI USB burner cable, then the firmware can be burned

MIC Interface

Terminal	Terminal Screen Printing	Definition	Description	Remarks
Microphone Interface	MIC	-	Condenser electret microphone	SH1.25MM-2P terminal

USB

Terminal	Terminal Screen Printing	Definition	Description	Remarks
Double Layer USB port	USB	USB-A	USB2.0Interface	-
		USB-A	USB2.0Interface	-
PH2.0-4P		USB1-PH2.0-4P	USB2.0Interface	
PH2.0-4P		USB1-PH2.0-4P	USB2.0Interface	

Technical support

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