

HT1730AI01AC1K1

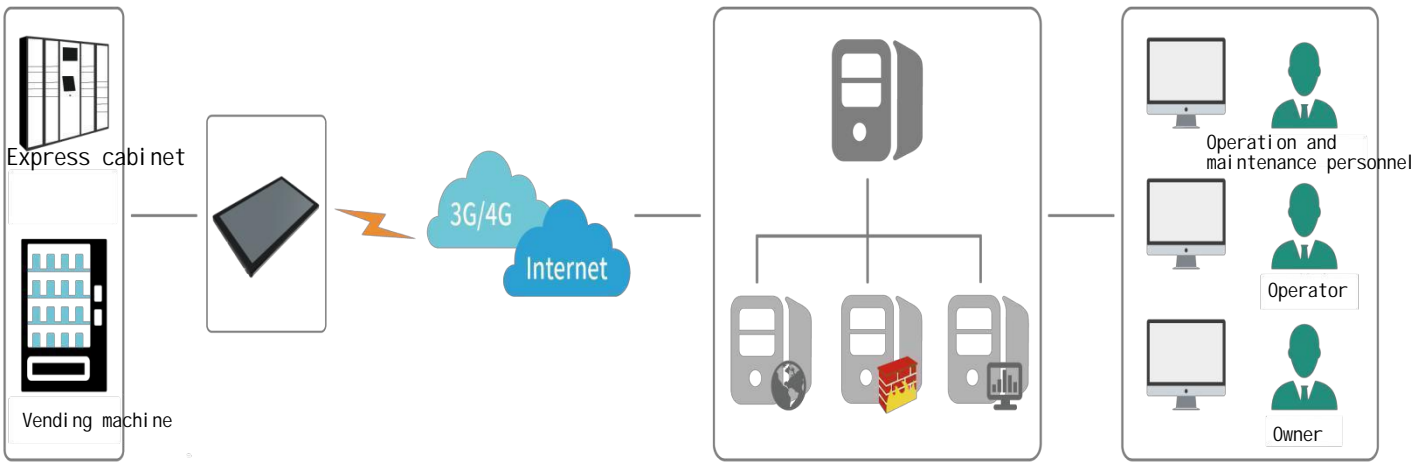
HT1730AI01AC1K1 specifications

Version	
V1.0.3	



HT1730AI01AC1K1 is a 17.3-inch integrated screen independently developed by HTDisplay. As a low-power industrial computer, it integrates wireless cellular network, routing technology, industrial computer technology. The system adopts Quad-core ARM Cortex-A17RK3288 processor, clocked at 1.8GHz, provides high-speed computing support for customer task programs, and can provide a smooth and powerful video experience. It includes 4xUSB, 3xRS232, 1xRS232/RS485, network, audio and other forms of interfaces, which can be connected to equipment such as code scanners, printers, cameras, keyboards, mice, etc., no longer troubled by the lack of interfaces. Built-in Android operating system and provide related APIs and development documents, making it easier and more convenient for customers to use and develop applications.

Application



Design

- ◆ Using high performance devices
- ◆ 17.3 inch screen, 1920*1080 high definition resolution
- ◆ Professional power supply design, with protection functions such as undervoltage, overvoltage, overcurrent, reverse connection, short circuit, surge, etc. Wide power input (DC9 - 24V)
- ◆ Wide temperature design (-20 ~ +70C)
- ◆ Adopt DC power terminal
- ◆ The whole machine has no fan design
- ◆ TF, SIM card adopts anti-theft structure design
- ◆ Built-in Android7.1 operating system

Stable use

- ◆ WDT watchdog design to ensure system stability
- ◆ A complete anti-drop mechanism is adopted to ensure that the terminal is always online. The Ethernet interface has built-in 1.5KV electromagnetic isolation protection.
- ◆ RS232/RS485 interface built-in 15KVESD protection
- ◆ SIM/UIM card interface built-in 15KVESD protection
- ◆ Lightning protection of antenna interface (optional)

Easy use

- ◆ Power on to enter the working state
- ◆ Support 10/100/1000Mbps Ethernet
- ◆ Provide 4 standard USB2.0 interfaces
- ◆ Provide multiple RS232DB9 interfaces
- ◆ SIM/UIM card interface built-in 15KVESD protection
- ◆ Provide audio input and output interface (with amplifier, optional)

Function

- ◆ Local storage supports TF card (optional)
- ◆ Open Android environment, you can develop and install applications yourself
Support 1920*1080 display resolution
- ◆ Support 802.11b/g/nWIFI network, and provide a variety of encryption methods
- ◆ Provide rich external interfaces to meet customer application requirements
- ◆ Support 3G/4G dial-up Internet access
- ◆ Support APN/VPDN private network dial-up
- ◆ Support intelligent online maintenance, disconnection reconnection, abnormal recovery functions
- ◆ Provide PWR, SYS, ONLINE and other indicators, more convenient to use and maintain
Support NTP, built-in RTC, support timing restart, timing switch function
- ◆ Support a variety of LAN/WAN connection methods, including static IP, DHCP, 3G/4G and other networking methods

Product Specifications

● Wireless parameters

Item	Content
Wireless module	Industrial grade wireless module (optional single module, dual module or no module)
Standard	Can support TDD-LTE/FDD-LTE optional single-mode, multi-mode or network-wide communication
Theoretical bandwidth)	FDDLTE (downlink rate 100Mbps, uplink rate 50Mbps) TDD LTE(Downlink rate 61Mbps, uplink rate 18Mbps)
Transmit power	<24dBm
Receive sensitivity	<-109dBm

Wifi parameters

Item	Content
Standards and frequency	IEEE802.11b/g/n, 2.4G
Transmission rate	IEEE802.11b: Maximum rate 11Mbps IEEE802.11g: Maximum 54Mbps IEEE802.11n: Maximum 150Mbps
Secure encryption	Support WEP, WPA, WPA2 and other encryption methods
Transmit power	15dBm (Maximum)
Receive sensitivity	<-70dBm@54Mbps

● Hardware system

Item	Content
CPU	Rockchip RK3288
FLASH	8GB eMMC
DDR3	2GB
TF card	32GB (optional)
Size	17.3 inch
Resolution	1920 (RGB) * 1080 (FHD) 127PPI
Active area	381.89mm (宽) * 214.81mm (高)
View angle	85/85/85/85 (Typ.) (CR≥10)
Color	262K (6-bit)
Response time	30 ms
Contrast	800: 1 (Typ.) Transmissive
Color gamut	70%
Luminance	250 cd / m ²
Frequency	60Hz
Touch	Capacitive touch panel
Surface hardness	≥ 7H
ESD	air 4KV, contact 4KV
Backlight warranty	3 years
Front protection level	IP64
Back protection level	IP30

● Interface type

Item	Content
Ethernet interface	10/100/1000Mbps Ethernet port (RJ45 socket), adaptive MDI/MDIX, built-in 1.5KV electromagnetic isolation protection
Serial port	3xRS232 and 1xRS485 serial ports, built-in 15KVESD protection, using standard DB9 male serial ports Speed: 2400 ~ 115200bits/s
Indicators	Have "PWR", "SYS", "OnLine" indicators
SIM/UI Card Interface	Standard drawer user card interface, support 1.8V/3VSIM/UIM card, built-in 15KVESD protection
USB port	4xstandard USB2.0 interfaces, 1xstandard USB2.0 OTG interface
TF card port	Standard pop-up TF card interface, support various TF cards
Audio interface	1xSpeak interface, 1xMic interface
Amplifier interface	Dual 8 ohm 5W power amplifier
Display interface	HDMI: support 1920x1080, 1366x768, 1280x720, 1024x768 and other resolutions
Antenna interface	Cellular: 2XSMA female antenna interfaces, characteristic impedance 50 ohms WIFI: 1XSMA male antenna interface, characteristic impedance 50 ohms
Power interface	DC terminal

● Power supply

Item	Content
Standard power supply	DC 12V / 5A
Power supply range	DC 9~24V

● Physical properties

Item	Content
Outer casing	Metal casing, shockproof design
Outline size	422 x 294 x 56.4 mm (Antenna and mount not included)
Power	60W (Maximum)
Weight	4.5 KG

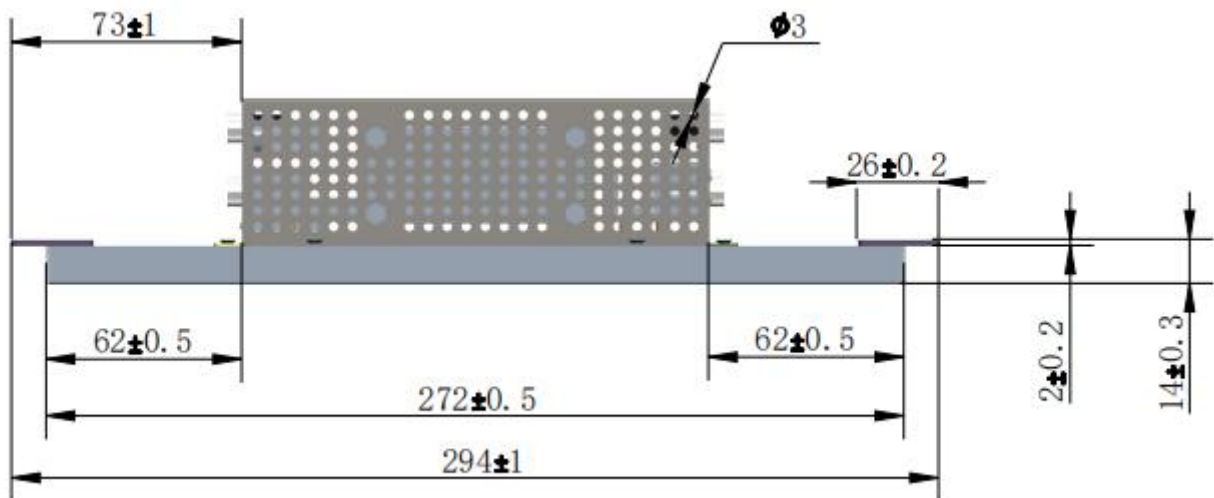
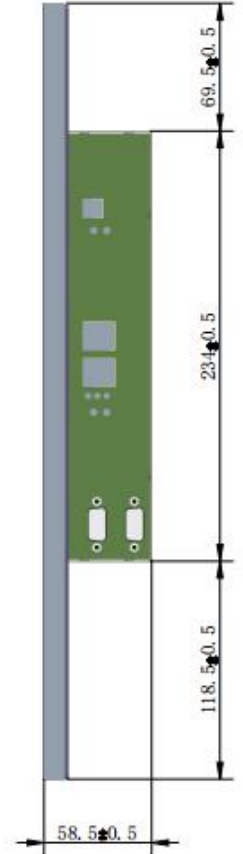
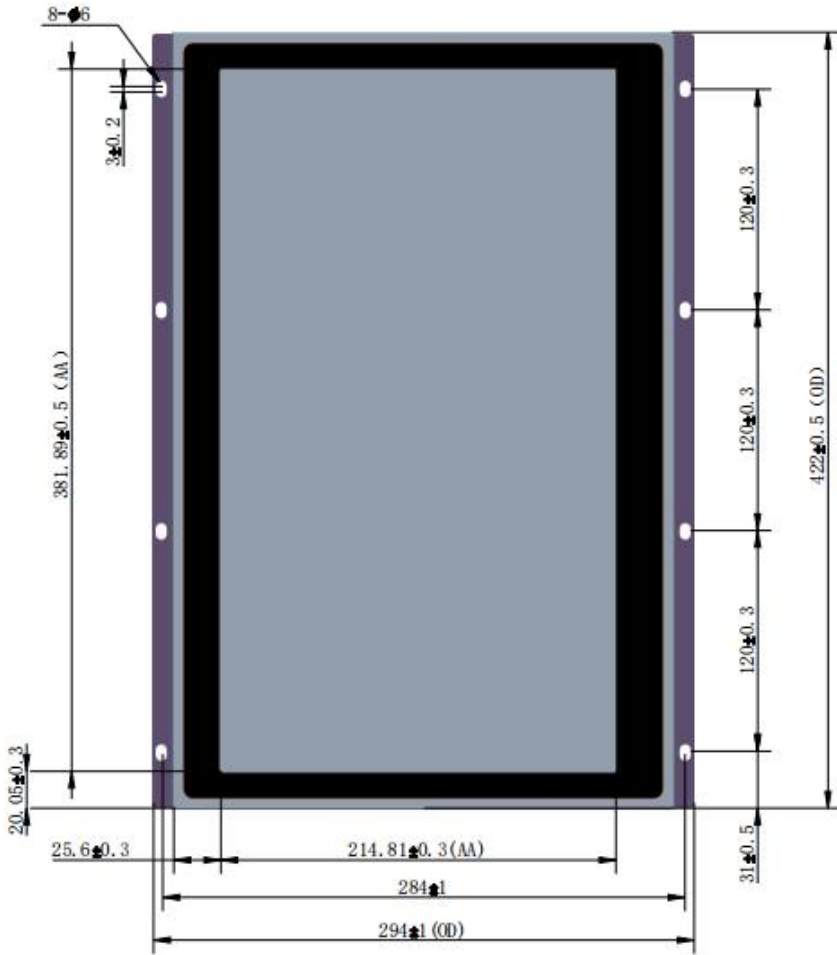
● Other parameters

Item	Content
Operation temp	-20~+70°C
Storage temp	-30~+80°C
Relative humidity	95% (non-condensing)

● EMS Test Certification (Internal)

Item	Content
EMI Conducted disturbances, electrical Magnetic radiation	GB13837
EMS Static immunity	GB17626.2-2008 IEC61000-4-2 4 level standard Contact discharge 4KV Air discharge 4KV

● Product size



● Product picture

