Connecting things
Hongdian

Since 1997
www.hongdian.com

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Product Manual

End-to-cloud Cellular Wireless Connectivity Product & Solution

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Who we are?

20+ years of IoT business

We are a leading IoT/M2M connectivity solutions provider, serving 30K+ customers, and enabling 10M+ IoT/M2M deployments in the world.

What we do?

We focus on cellular routers, industrial gateways and modems, edge computing devices, 5G CPE, cloud software, and end-to-end IoT/M2M solutions.

What our value is?

We are dedicated to helping customers to solve connectivity challenges with reliable, secure, scalable, and manageable IoT/M2M solutions.

Strength in Numbers

1997 Founded in Shenzhen	**26** Years of R&D experiences	**120+** Countries Deployed
10,000+ Successful Cases	**30,000+** Clients	**10M+** Machines Connected

Milestone

2022
Hongdian new headquarters established

2020
5G + AI visual recognition solution launched
5G MBB series launched

2019
China's first 5G industrial-grade CPE released

2018
Well expanded in North America market

2015
EMEA Market expansion

2013
Enter smart water and connected vehicle market

2009
Founded cloud platform software branch

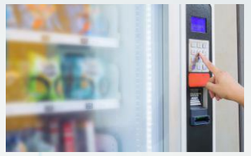
2005
Global business division established, successfully entered into southeast Asia market

2002
1st GPRS DTU Modem inventor and trademark owner in China

1997
Founded in Shenzhen

Hongdian End-to-Cloud Wireless Connectivity Solution

Application



Smart Retail

Smart Industrial

Energy

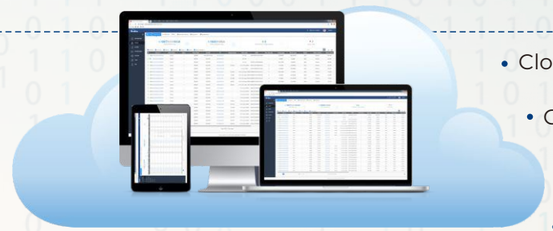
Telematics

Smart City

Enterprise Branch

5G & FWA

Platform



Hongdian Wedora IoT Platform

- Cloud Monitoring
- Cloud Maintenance
- Data Analysis
- Device Port Virtualization

API

Support Third-party Platform

HUAWEI Cloud · Alibaba Cloud · Tencent Cloud · Baidu Cloud · Microsoft Azure · AWS Cloud · ……

Network

4G 5G Wi Fi

Cellular Router

Industrial Cellular Gateway

4G 5G Wi Fi 6

Android Industrial Computer

5G CPE

Sensor

PM2.5 AGV

Hongdian IoT Vertical Industry

Smart Energy System

Power Distribution
EV Charging Pile
Solar Energy Remote Monitoring
Automatic Meter Reading

Industrial Automation

Industrial Robot
Injection Molding Machine
CNC/PLC
Automatic Guided Vehicle
VPN Based Remote Monitoring

Smart Retail

Smart Parcel Locker
Vending Machine
Self-service Kiosk
Smart Refrigerator/Smart Coffee Machine
Bank ATM Networking

Internet of Vehicle

Vehicle-mounted System Networking
Vehicle Surveillance System(MDVR)
ADAS Acitve Safety Monitoring
DSM Driver Monitoring
Public WiFi

Security Monitoring

CCTV Networking
Elevator Monitoring
Traffic Lights
Construction Site Monitoring
Oil & Gas Pipeline Monitoring

Smart City

Smart Water Management System
Urban Flood Monitoring
Smart Building
Smart Street Lamp
HVAC Network Solution

Environmental Protection

Automated Weather Station
Pollution Source Monitoring
Noise Monitoring

Smart Healthcare

Telemedicine
Networking Solution of Ambulance
Management Solution of Medical Machines

5G Application

5G Branch Office
5G Private Network
5G Smart Factory

Product Catalogue

Cellular Router

H8951 4G Wi-Fi Router

H7960 4G POE+ Router

H8922S 4G Dual SIM Router

H8923S 5G Wi-Fi Router

A20M 4G LTE Router

Android Industrial Computer

H9380P 4G Industrial Computer

H9380F 4G Industrial Computer

H9360 Embedded Industrial Computer

Q6101/Q6133 Android Industrial All-in-one Panel PC

Industrial Cellular Gateway

X1 Industrial Gateway

X2 5G Industrial Gateway

Z1 Industrial Outdoor Gateway

Z2 5G Industrial Gateway

5G CPE

A500Q AX5400 5G CPE

A500M AX3600 5G CPE

H101C AC1200 5G CPE

A530Q AX1800 5G UFi

H8951
4G Wi-Fi Router

H8951 is the staring product among the Hongdian's incredible wireless communication product family, dedicating for professional M2M & IoT applications. It provides excellent wireless communication solution to customer by connecting their end devices towards their business success. H8951 cellular Wi-Fi router has been approved by global customers who are using its cellular based connection solution for all their assets/machines to get online, Wi-Fi station and Ethernet WAN can also be configured to help you build up different network topologies. Plus Links auto-failover, VPN data encryption, and multi-VPN tunnel backup machanism, giving customer a secure and extremely reliable networking solution.

- ***Always online 4G network***
- ***Global LTE bands support***
- ***Cloud based management***
- ***Market approved quality***

Specification

Modem	1 × LTE Cat 4	**SIM**	1 × Mini SIM (2FF)
Number of ports	2 × 10/100 Mbps, Ethernet	**Standards**	802.11b/g/n, AP or station mode
Frequency bands	2.4 GHz	**Speed**	150Mbps
Auto fail-over	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	**VPN**	PPTP/L2TP/GRE/IPSec/OpenVPN/ DMVPN
		Voltage input	+5V~+36V DC
LED indicators	4 indicators for Wi-Fi, RF, NET, SYS	**Ingress protection**	IP30
Operating temperature	-30 ~ +75℃	**Relative humidity**	⩽95%(no condensing)

H7960
4G POE+ Router

H7960 POE+ router is dedicated for providing strong cellular network for IoT applications and has been approved by many customers in the vertical industries. It supports a set of cellular backup functions to keep the router working 24/7, Data security is ensured by VPN private network access, with its high-speed and stable mobile data transmission capacity to meet the needs of different applications, widely used in public transit, security serveillance, fleet management, smart power gird, environmental protection and other applications.

- ***4G & 5G ready***
- ***POE+ output on Ethernet***
- ***WLAN & GPS DR***
- ***DIN rail installation***

Specification

Modem	1 × LTE Cat 4	**SIM**	2 × Mini SIM (2FF)
Number of ports	4 × 10/100 Mbps, Ethernet	**Standards**	802.11b/g/n, AP or station mode
Frequency bands	2.4 GHz	**Speed**	150Mbps
Auto fail-over	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	**Serial interface**	1 × RS-232 + 1 × RS-485 serial port
		VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/ DMVPN
Serial ports function	Transparent, Modbus RTU, etc	**Voltage input**	+9V~+54V DC
LED indicators	4 indicators for Wi-Fi, System, Network, Signal	**Ingress protection**	IP30
Operating temperature	-30 ~ +70℃	**Relative humidity**	⩽95%(no condensing)

H8922S
4G Dual SIM Router

H8922S is designed for critical IoT applications which require advanced connection robustness and data security, especially suitable for smart retails, point-of-sale, ATM machines, etc. Hongdian router series provides excellent wireless communication experience to customer by connecting their end devices towards their business success. With its seemless internet failover, data encryption feature and multi-VPN tunnel backup machanism, H8922S will always keep your business safe and transmitting data flow without any interuption.

- ***Dual 4G link backup***
- ***Cellular/VPN Auto-failover***
- ***Rich interfaces for connectivity***
- ***Approved by financial industry***

Specification

Modem	1 × LTE Cat4 (2 × LTE Cat4 optional)	**SIM**	2 × Mini SIM (2FF)
Number of ports	5 × 10/100 Mbps, Ethernet	**Standards**	802.11b/g/n, AP or station mode
Frequency bands	2.4 GHz	**Speed**	150Mbps
Auto fail-over	Between: 2 Cellulars Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	**Serial interface**	1 × RS-232 + 1 × RS-485 serial port
		VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/ DMVPN
Serial ports function	Transparent, Modbus RTU, etc	**Voltage input**	+5V~+36V DC
LED indicators	10 indicators for PWR, SYS, WAN, LAN1~LAN4, RF, NET, WLAN	**Ingress protection**	IP30
Operating temperature	-30 ~ +70℃	**Relative humidity**	⩽95%(no condensing)

H8923S
5G Wi-Fi Router

H8923S 5G router provides Global 5G Sub-6GHz SA/NSA network access for mission-critical industrial IoT applications, which often require a mass data throughput and lower network latency. It is dedicated for mass data such as high-definition video stream backhaul and remote equipment maintenance and it is suitable for smart factories, medical equipment, robot vision, video surveillance, smart energy and other industrial fields.

- ***5G Sub-6Ghz network access***
- ***Wi-Fi 5 2×2 MIMO***
- ***Gigabit Ethernet ports***
- ***Fasten ROI for 5G applications***

Specification

Modem	1 × 5G NR SA/NSA	**SIM**	2 × Mini SIM (2FF)
Number of ports	5 × 10/100/1000 Mbps, Gigabit Ethernet	**Standards**	802.11b/g/n/ac, AP or station mode
Frequency bands	2.4 GHz & 5GHz	**Speed**	1167Mbps
Auto fail-over	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	**Serial interface**	1 × RS-232 + 1 × RS-485 serial port
		VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/ DMVPN
Serial ports function	Transparent, Modbus RTU, etc	**Voltage input**	+9V~+36V DC
LED indicators	9 indicators for PWR, NET1, NET2, DATA, Wi-Fi 2.4GHz, Wi-Fi 5GHz, Signal	**Ingress protection**	IP30
Operating temperature	-30 ~ +75℃	**Relative humidity**	⩽95%(no condensing)

A20M
4G LTE Router

A20M is a small size 4G router with 2 Ethernet ports designed for industrial M2M/IoT applications. It provides secure and stable internet connectivity for industrial applications and dedicated to coffee machine, vending machine, SOHO, interactive advertising screen, lottery machine, smart lockers and more scenarios.

- ***LTE CAT1/CAT4***
- ***L2TP/IPsec VPN***
- ***Small but Rugged***
- ***RMS manageable***

Specification

Modem	1 × LTE Cat 1 or Cat 4	**SIM**	1 × Mini SIM (2FF)
Number of ports	2 × 10/100Mbps, Ethernet	**Auto fail-over**	Between: Cellular and WAN
VPN	L2TP, IPSec	**Voltage input**	9V~12V DC
LED indicators	1 network indicator, 4 signal quality indicators		
Hardware watchdog	YES	**Ingress protection**	IP30
Operating temperature	-30 ~ +75℃	**Relative humidity**	⩽95%(no condensing)

X1
Industrial Gateway

X1 is a new generation 4G VPN gateway with edge computing capability for IIoT. It adopts a fully industrial-grade hardware platform with powerful data collection, storage, analysis and processing capabilities. 4G wireless network and multiple bandwidth services provide stable and reliable Internet access everywhere. With its excellent product quality and comprehensive security, it realizes equipment networking and provides solutions for true equipment informatization, manufacturing intelligence, edge computing and maintenance industrial internetization.

- ***Open system architecture design***
- ***Data acquisition and edge processing***
- ***Support various industrial protocols***
- ***Programable with C and python***

Specification

Modem	1 × LTE Cat 4	**SIM**	2 × Mini SIM (2FF)
Number of ports	2 × 10/100 Mbps, Ethernet	**Standards**	802.11b/g/n, AP or station modes
Frequency bands	2.4 GHz	**Serial interface**	1 × RS-232 + 1 × RS-485 serial port
Auto fail-over	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	**VPN**	PPTP/L2TP/GRE/IPSec/OpenVPN/ DMVPN
		Voltage input	+5V~+36V DC
Serial ports function	Transparent, Modbus RTU, etc	**Installations**	Desktop, wall mounting and DIN rail mounting
LED indicators	1 network indicator, 4 signal quality indicators	**Ingress protection**	IP40
Operating temperature	-30 ~ +70℃	**Relative humidity**	5 ~ 95% RH

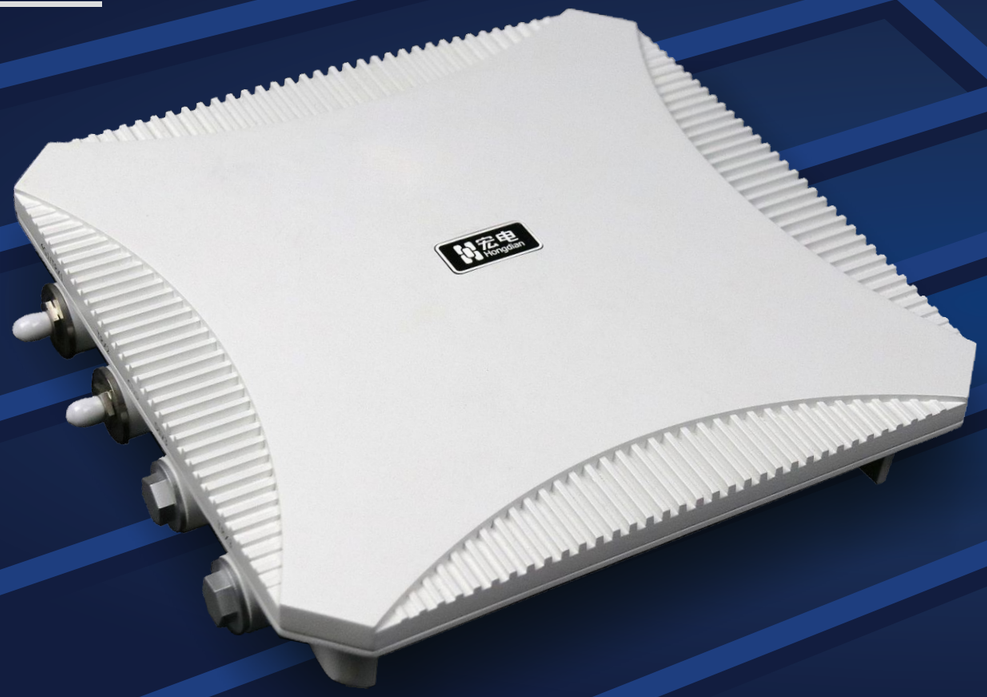
X2
5G Industrial Gateway

Hongdian X2 5G Industrial Gateway is a class of gateway with edge computing capability. The open software architecture design provides fast and flexible customization, rich and diverse interfaces, local real-time data analysis and intelligent processing with strong temperature, electromagnetic resistant and able to adapt to different industry scenarios.

- ***Qualcomm IPQ4019 SoC inside***
- ***5G NR & dual SIM backup***
- ***Wi-Fi 5 wave 2, 2x2 MU-MIMO***
- ***Support various industrial protocols***

Specification

Modem	1×LTE or 1×5G NR SA/NSA or 1×LTE + 1×5G NR SA/NSA		
Number of ports	4 × 10/100/1000 Mbps, Gigabit Ethernet	**SIM**	2 × Mini SIM (2FF)
Frequency bands	2.4 GHz & 5GHz	**Standards**	802.11b/g/n/ac, AP or station modes
Serial interface	1 × RS-232 + 1 × RS-485 serial port	**GNSS antenna**	1 (only for GPS version)
Auto fail-over	Between: 2 Cellulars Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	**VPN**	PPTP/L2TP/GRE/IPSec/OpenVPN/ DMVPN
		Voltage input	+9V~+48V DC
Serial Ports function	Transparent, Modbus RTU, etc	**Ingress protection**	IP40
LED indicators	4 indicators for Wi-Fi, SIG, NET, SYS	**Installations**	Desktop, wall mounting and DIN rail mounting
Operating temperature	-30 ~ +75℃	**Relative humidity**	5 ~ 95% RH



Z1
5G Industrial Outdoor Gateway

With powerful data collection, storage, analysis and processing capabilities, Z1 5G Industrial Outdoor Gateway is mainly aimed at the industrial sector and can also be used for indoor and outdoor network coverage, providing customers with solutions for device networking, edge computing and intelligent operation and maintenance.

- ***Enhanced 5G download rate***
- ***Wi-Fi 5 wave 2, 2×2 MU-MIMO***
- ***4 RJ45 Gigabit Ethernet interfaces***
- ***IP66 protection***

Specification

Modem	1 × 5G NR SA/NSA	**SIM**	2 × Mini SIM (2FF)
Number of ports	4 × 10/100/1000 Mbps, Gigabit Ethernet	**Standards**	802.11b/g/n/ac, AP or station modes
Frequency bands	2.4 GHz & 5GHz	**GNSS antenna**	1 (only for GPS version)
Auto fail-over	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	**Serial interface**	1 × RS-232 + 1 × RS-485 serial port
		VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/ DMVPN
Serial ports function	Transparent, Modbus RTU, etc	**Voltage input**	+9V~+24V DC
LED indicators	4 indicators for Wi-Fi, SIG, NET, SYS	**Ingress protection**	IP66
Installations	Desktop, wall mounting and DIN rail mounting		
Operating temperature	-30 ~ +70℃	**Relative humidity**	5 ~ 95% RH

Z2
5G Industrial Gateway

Z2 Industrial Cellular Gateway is a new generation of 5G gateway with edge computing capability. Its built-in 4-core high-performance processor supports floating point computing and built-in embedded memory, external TF card interface support local storage and data processing. The open software architecture design provides fast and flexible customization, rich and diverse interfaces, local real-time data analysis and intelligent processing with strong temperature, electromagnetic resistant and is able to adapt to different industry scenarios.

- ***5G broadband with extreme low latency***
- ***Serial Ports and Gigabit Ethernet ports***
- ***Compact size for in-machine connectivity***
- ***External antenna design for different usage***

Specification

Modem	1 × 5G NR SA/NSA	**SIM**	2 × Mini SIM (2FF)
Number of ports	2 × 10/100/1000 Mbps, Gigabit Ethernet	**Standards**	802.11b/g/n, AP or station modes
Frequency bands	2.4 GHz	**GNSS antenna**	1 (for GPS / Wi-Fi)
Auto fail-over	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	**Serial interface**	1 × RS-232 + 1 × RS-485 serial port
		VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/ DMVPN
Serial ports function	Transparent, Modbus RTU, etc	**Voltage input**	+9V~+24V DC
LED indicators	4 indicators for Wi-Fi, SIG, NET, SYS	**Ingress protection**	IP40
Installations	Desktop, wall mounting and DIN rail mounting		
Operating temperature	-30 ~ +70℃	**Relative humidity**	5 ~ 95% RH

H9380P
4G Industrial Computer

H9380P Android Industrial Computer is a highly reliable and stable intelligent device designed with Cortex microprocessor and Android operating system. It provides running environment such as Android 7.1.2, supporting 4G full network pass real-time communication, city services and business networking application APP can run directly in the system to provide convenient interactive services for end users. Its rich peripheral interfaces and super image processing capability can be widely used in urban services and new retail areas, and can meet the needs of many industry applications such as face payment smart vending machines, smart coffee machines, smart delivery cabinets, robots , IoT fields, vehicle control, and medical classes.

- ***Rk3399 chipset inside***
- ***4K 10bit@60fps video decoding***
- ***Rich interfaces for multimedia applications***
- ***Android OS/ Linux***

Specification

CPU	Rk3399, highest frequency: 1.8 GHz, 64 bits		
NPU	N/A	**Memory**	2GB
Built-in storage	16GB	**Modem**	1 × LTE Cat 4
Serial	3 × RS-232 (1 RS232 port can be configured as a RS485 port), DB9 male connector ; 1 × RS-485 serial port, 3-pin 3.5 mm female socket		
Ethernet	1x 10/100/1000 Mbps, Gigabit Ethernet	**USB**	USB 2.0 × 4, USB 3.0 × 2, OTG × 1
Display	HDMI 2.0 × 1	**Operating system**	Android 7.1.2/ Linux
Video code	H.265/H.264/VP9 4K@60fpsHD video decoding		
Operating temperature	-20 ~ +70℃	**Relative humidity**	5 ~ 95% RH

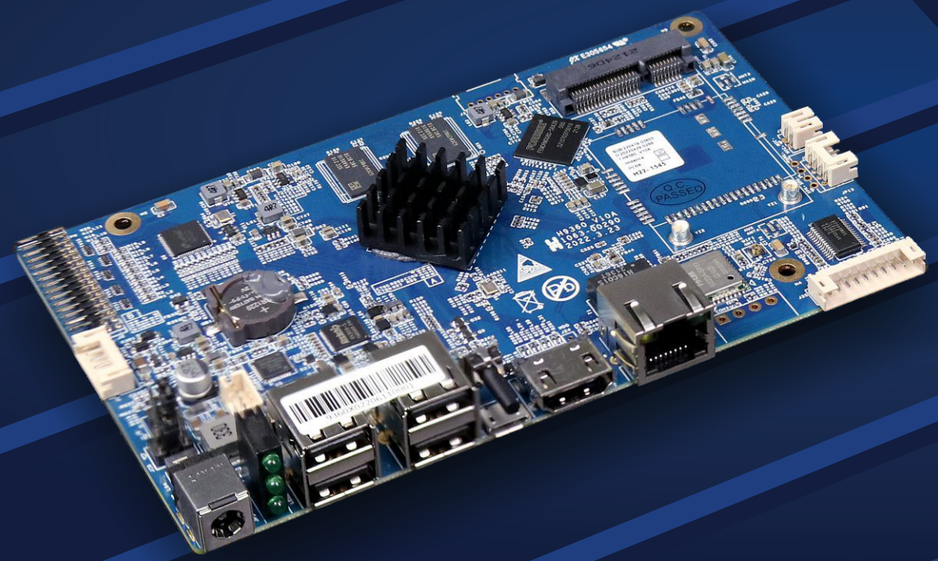
H9380F
4G Industrial Computer

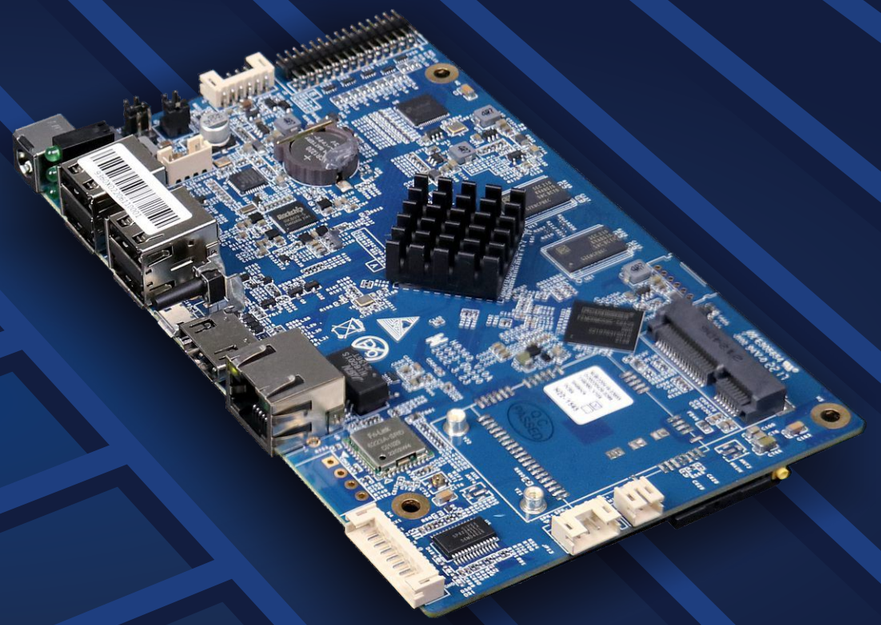
H9380F Android Industrial Computer is a mid to high-end solution with an integrated 4-core arm architecture A55 processor and Mali G52 2EE graphics processor, supporting 4K decoding and 1080P encoding. There is a built-in independent NPU for lightweight artificial intelligence applications. Providing Android 11 system, mainly used in smart containers, smart vending machines, smart express cabinets, smart power exchange cabinets and other kinds of intelligent selfservice terminals.

- ***Rk3568 chipest inside***
- ***Android 11 system***
- ***Rich interfaces for multimedia applications***
- ***Industrial design for stable working performance***

Specification

CPU	Rk3568, highest frequency: 2.0 GHz, 64 bits		
NPU	0.8 TOPS	**Memory**	2GB
Built-in storage	8GB	**Modem**	1 × LTE Cat 4
Standards	802.11b/g/n, AP or station modes	**GNSS antenna**	1
Serial	4 × RS-232 (1 RS232 port can be configured as a RS485 port), DB9 male connector ; 1 × RS-485 serial port, 3-pin 3.5 mm female socket		
Ethernet	1 × 10/100/1000 Mbps, Gigabit Ethernet	**USB**	USB 2.0 × 6, OTG × 1
Display	HDMI 2.0 × 1, LVDS × 1	**Operating system**	Android 11/ Linux
Video code	H.265/H.264/VP9 4K@60fpsHD video decoding, H.265/H.264/VP9 1080P@100fpsHD videoencoding		
Operating temperature	-20 ~ +70℃	**Relative humidity**	5 ~ 95% RH





H9360
Embedded Industrial Computer

H9360 Embedded Industrial Computer adopts RK3568 high-performance processor and Android operating system to design high reliability and high stability intelligent industrial control equipment. It provides Android 11 and other operating environments, supports 4G full Netcom real-time communication, and the city service and commercial networking APPs can directly run in the industrial computer system to provide end-users with convenient interactive services. Its rich peripheral interfaces and super image processing capabilities can be widely used in urban services and new retail fields.

- ***Rk3568 chipset inside***
- ***2GB DDR + 8G EMMC***
- ***2*RS232 & 2*RS485***
- ***Android 11/Linux***

Specification

CPU	Rk3568, highest frequency: 2.0 GHz, 64 bits		
NPU	0.8 TOPS	**Memory**	2GB
Built-in storage	8GB	**Modem**	1 × LTE Cat 4
Standards	802.11b/g/n, AP or station modes		
Serial	2 × RS-232 + 2 × RS-485 serial port, 10-pin 2 mm female socket		
Ethernet	1 × 10/100 Mbps, Ethernet	**USB**	USB 2.0 × 5, OTG × 1
Display	HDMI 2.0 × 1, LVDS × 1 , MIPI × 1	**Operating system**	Android 11/ Linux
Video code	H.265/H.264/VP9 4K@60fpsHD video decoding, H.265/H.264/VP9 1080P@100fpsHD videoencoding		
Operating temperature	-20 ~ +70℃	**Relative humidity**	5 ~ 95% RH

Q6101/Q6133

Android Industrial All-in-one Panel PC

Q6101/Q6133 10.1/13.3 inch Android Industrial All-in-one Panel PC with high performance processor RK3568 and Android 11 OS, is a highly stable intelligent industrial control device. The device support 3G/4G cellular network. The city service and commercial APPs can be directly run in the Android OS to provide convenient interactive services for end users. There are rich peripheral interfaces which can be widely used in city services and new retail fields, the device can meet the needs of IoT fields, such as food-pickup lockers, coffee machines, face payment vending machines, express lockers, robots, vehicle control, medical and other industry application needs.

- ***Lightweight algorithm, supporting INT8, INT16, FP16 efficient computing***
- ***Support local network management, LAN/WAN can be online at the same time***
- ***Super resolution, excellent color and dynamic range***
- ***Multi-touch, ultimate interaction***

Specification

CPU	Rk3568, highest frequency: 2.0 GHz, 64 bits		
NPU	0.8 TOPS	**Memory**	2GB
Built-in storage	8GB	**Modem**	1 × LTE Cat 4
Standards	802.11b/g/n, AP or station modes	**Ethernet**	1 × 10/100 Mbps, Ethernet
USB	USB 2.0 × 4, OTG × 1	**Display**	HDMI 2.0 × 1
Liquid crystal	LED Display Screen	**Screen size**	10.1 inch / 13.3 inch
Brightness	250cd/m2	**Resolution**	1280×800 / 1920x1080
Transmittance	⩾85%	**Glass material**	Tempering glass
Max touch points	Simultaneous 10-Point Touch	**Operating system**	Android 11/ Linux
Video code	H.265/H.264/VP9 4K@60fpsHD video decoding, H.265/H.264/VP9 1080P@100fpsHD videoencoding		
Operating temperature	-20 ~ +70℃	**Relative humidity**	5 ~ 95% RH

A500Q
AX5400 5G CPE

A500Q is a 5G & Wi-Fi 6 desktop CPE designed for SME and smart home case. It applies a simple, integrated and fashion design with powerful performance. A dozen antennas are hidden under the housing. It has full 5G features like Gigabits UL & DL bandwidth, Gigabits Ethernet, up to 5400Mbps Wi-Fi 6, also supports VoLTE/VoNR, and could be your access point in SME or home.

- ***5G speed rivals fiber broadband access***
- ***Wi-Fi 6 brings 50% speed enhancement***
- ***AX5400 Wi-Fi capacity for up to 128 clients***
- ***VoLTE/ VoNR and Gigabit LAN connection***

Specification

Chipset	Qualcomm X62	**Standard**	3GPP Rel-16 NSA/SA
Wireless standard	Wi-Fi 6, 802.11 a/b/g/n/ac/ax	**Max. user**	128
LED	Power, Wi-Fi, 4G, 5G	**SIM**	Nano SIM
Button	RESET, WPS, Power (optional)	**Ethernet**	1 × GigE LAN, 1 × 2.5GigE WAN/LAN
Tel port	RJ11 × 1	**Voltage**	12V/3A
Weight	Approx. 800g	**Size**	101 × 101 × 208.8mm
Operating temperature	-10 ~ +45℃	**Relative humidity**	⩽95%(no condensing)

A500M
AX3600 5G CPE

A500M is a 5G & Wi-Fi 6 desktop CPE designed for SME and smart home case. It applis a simple, integrated and standard 3GPP Rel-15 NSA/SA fashion design with powerful performance. A dozen antennas are hidden under the housing. It has full 5G features like Gigabits UL & DL bandwidth, Gigabits Ethernet, up to 3600Mbps Wi-Fi 6, also supports VoLTE, and could be your access point in SME or home.

- ***5G powered by MTK chipset***
- ***Wi-Fi 6 brings 50% speed enhancement***
- ***AX3600 Wi-Fi capacity for up to 64 clients***
- ***VoLTE and Gigabit LAN connection***

Specification

Chipset	MTK MT750	**Standard**	3GPP Rel-15 NSA/SA
Wireless standard	Wi-Fi 6, 802.11 a/b/g/n/ac/ax	**Max. user**	64
LED	Power, Wi-Fi, 4G, 5G	**SIM**	Nano SIM
Button	RESET, WPS, Power (optional)	**Ethernet**	1 × GigE LAN, 1 × GigE WAN/LAN
Tel port	RJ11 × 1	**Voltage**	12V/2A
Weight	Approx. 610g	**Size**	94.3 × 107.1 × 186.5mm
Operating temperature	-10 ~ +55℃	**Relative humidity**	⩽95%(no condensing)

H101C
AC1200 5G CPE

H101C 5G CPE is a 5G desktop CPE specially designed for SME and smart home cases.It adopts a simple, integrated and fashionable design with 8 built-in antennas. With lying design and square appearance, it can plug and play to provide a high-speed network access point in SME or families.

- ***5G speed rivals fiber broadband access***
- ***Wi-Fi 5 2×2 MU-MIMO***
- ***AC1200 Wi-Fi capacity for up to 64 clients***
- ***Gigabit LAN connection***

Specification

Chipset	Unisoc IVY510	**Standard**	3GPP Rel-15 NSA/SA
Wireless standard	Wi-Fi 5, 802.11 a/b/g/n/ac	**Max. user**	64
LED	Power, Wi-Fi, 4G, 5G	**SIM**	Micro SIM
Button	RESET, Power, WPS	**Ethernet**	1 × GigE LAN, 1 × GigE WAN/LAN
Tel port	N/A	**Voltage**	12V/1.5A
Weight	Approx. 450g	**Size**	175 × 175 × 48.5mm
Operating temperature	-10 ~ +45℃	**Relative humidity**	⩽95%(no condensing)

A530Q
AX1800 5G UFi

A530Q is a portable 5G mobile communication wireless device. It is equipped with Qualcomm processor and dual-band Wi-Fi module under the compact and lightweight appearance. It is a handheld mobile Wi-Fi that provides users with simple, portable, multi-access, and fast network speeds.

- ***Qualcomm X55 5G chipset***
- ***Portable Wi-Fi 6 AP***
- ***AX1800 capacity for up to 32 clients***
- ***Exquisite design and easy to carry***

Specification

Chipset	Qualcomm X55	**Standard**	3GPP Rel-15 NSA/SA
Wireless standard	Wi-Fi 6, 802.11 a/b/g/n/ac/ax	**Max. user**	32
LED	1 × LED for 4G & 5G	**SIM**	Nano SIM
Button	RESET	**Ethernet**	N/A
Tel port	N/A	**Voltage**	5V/1A
Weight	Approx. 102g	**Size**	124 × 73.5 × 17.5mm
Operating temperature	-10 ~ +40℃	**Relative humidity**	⩽95%(no condensing)

Use Case

Automated Parcel Locker

Amazon/HIVE BOX | H8956/H8959
NA/EU/ASIA | 2018-2022

Hongdian integrates third-party devices and supplies over 500,00 automated parcel lockers to some E-commercial companies and helps them lower their delivery cost and achieve contactless delivery.

Smart Vending Machine

Fuji electric | H8922S/H9380P
Bangkok | 2019-2021

Hongdian H8922S provides stable and reliable data transmission for their vending machines. At the same time, Hongdian H9380P let users operate their vending machines remotely through the platform.

Vehicle Networking

SBS/SMRT | H8951
Singapore | 2018

H8951 provides high-speed and stable 4G data transmission service for in-car MDVR and other devices, the bus company is able to real-time control the situation and the equipment operating status in real time.

ATM Networking

Central Bank of Thailand/Bank Indonesia
Thailand/Indonesia/Brazil | H8922S

About 30000+ H8922S provides dual-channel 4G wireless connectivity with protection. Strict security certification at product & solutions level, IPSec tunnels to secure data transmission in the air.

5G Smart Factory

Ericsson/BYD | Z1
China | 2020-2021

Z1 gateway with IP66 dustproof and waterproof ability, adapts to harsh environment. PLC protocol library and customized interface to connect to MES platform, realize real-time viewing of equipment data and remote maintenance operation.

Automatic Guided Vehicle Monitoring

Foxconn | X2
China | 2020

X2 provides stable and secure data transmission for the status of AGV, road condition and location to the cloud in real time. Real-time adjustment of AGV based on backend data processing.

Smart Harbor

Ningbo/Shenzhen Port | Z1
China | 2020

Together with partner, Hongdian involved in three large scale smart port projects in China. Hongdian Z1 helps to build a stable and reliable 5G network for connection of all the terminals.

5G Fixed Wireless Access

Saudi Arabia, CSL, China Unicom | A500 series
Global operators, | 2021-2022

Hongdian A500 series have provided different solutions for many carriers, including Saudi Arabia, CSL, China Unicom, etc.

Specification Comparison

Cellular Router

Product	H8951	H7960	H8922S	H8923S	A20M
Hardware					
CPU	Mediatek MIPS 24Kc 580 MHZ	Mediatek MIPS 24Kc 580 MHZ	Mediatek MIPS 24Kc 580 MHZ	Mediatek MIPS1004Kc 880 MHZ	Mediatek MIPS 24Kc 580 MHZ
RAM	128MB	128MB	128MB	256MB	64MB
Flash	16MB	16MB	16MB	32MB	8MB
Cellular Interface					
Modem	1 × LTE Cat4 or 1 × LTE Cat 1	1 × LTE Cat4	1 × LTE Cat4 (2 × LTE Cat4 optional)	1 × 5G NR SA/NSA	1 × LTE Cat 1 or Cat 4
Number of Antennas	2 (MAIN + AUX)	2 (MAIN + AUX)	2 (MAIN+AUX)	4 (MAIN+AUX)	1 (MAIN)
Connector	SMA-K	SMA-K	SMA-K	SMA-K	SMA-K
SIM	1 × Mini SIM (2FF)	2 × Mini SIM (2FF)	2 × Mini SIM (2FF)	2 × Mini SIM (2FF)	1 × Mini SIM (2FF)
Ethernet Interface					
Number of Ports	2 × 10/100 Mbps, Ethernet	4 × 10/100 Mbps, Ethernet	5 × 10/100 Mbps, Ethernet	5 × 10/100/1000 Mbps, Gigabit Ethernet	2 × 10/100 Mbps, Ethernet
Configuration	2 × LAN or 1 × LAN + 1 × WAN	4 × LAN or 3 × LAN + 1 × WAN	5 × LAN or 4 × LAN + 1 × WAN	4 × LAN + 1 × WAN	2 × LAN or 1 × LAN + 1 × WAN
PoE Output	N/A	POE+ 30W output × 4	N/A	Optional	N/A
Wireless Interface					
Standards	802.11b/g/n, AP or station mode	802.11b/g/n, AP or station mode	802.11b/g/n, AP or station mode	802.11b/g/n/ac, AP or station mode	N/A
Frequency Bands	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz & 5 GHz	N/A
Speed	150Mbps	150Mbps	150Mbps	1167Mbps	N/A
Security	WPA, WPA2	WPA, WPA2	WPA, WPA2	WPA, WPA2	N/A
Encryption	64/128 AES, TKIP	64/128 AES, TKIP	64/128 AES, TKIP	64/128 AES, TKIP	N/A
Antennas	1	1	1	2 × 2 MIMO (1 would be used in GPS version)	N/A
Connector	SMA-K	SMA-K	SMA-K	SMA-K	N/A
GNSS Interface					
Number of Antennas	N/A	1	1 (only for GPS version)	1 (only for GPS version)	N/A
Connector	N/A	SMA-K with 50 ohms impedance	SMA-K with 50 ohms impedance	SMA-K with 50 ohms impedance	N/A
Dead Reckoning	N/A	Optional	N/A	N/A	N/A
Seiral Interface					
Type	N/A	1 × RS-232 + 1 × RS-485 serial port	1 × RS-232 + 1 × RS-485 serial port	1 × RS-232 + 1 × RS-485 serial port	N/A
Socket Form	N/A	1 × 9-pin 3.5 mm female socket	1 × 6-pin 3.5 mm female socket	1 × 5-pin 3.5 mm female socket	N/A
Signal Definition	N/A	RX, TX, GND (RS-232) , A+, B-, GND (RS-485)	RX, TX, GND (RS-232) , A+, B-, GND (RS-485)	RX, TX, GND (RS-232) , A+, B-, GND (RS-485)	N/A
Baudrate	N/A	RS-232 (300-115200bps) RS-485 (300-115200bps)	RS-232 (300-115200bps) RS-485 (300-115200bps)	RS-232 (300-115200bps) RS-485 (300-115200bps)	N/A
ESD	N/A	15KV	15KV	15KV	N/A
Software					
Auto Fail-over	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	Between: 2 Cellulars Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	Between: Cellular and WAN
Network Protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT,HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH2, DDNS, etc.	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH, DDNS, etc.	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH, DDNS, etc.	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH, DDNS, etc.	TCP, UDP, IPv4, IPv6, ICMP, NTP, DHCP, DNS, HTTP, HTTPS, SSL, ARP, PPPoE, SSH, Telnet, ICMP
Routing	Static Routing, Policy routing, RIP, OSPF and BGP, etc	Static Routing, Policy routing, RIP, OSPF and BGP, etc	Static Routing, Policy routing, RIP, OSPF and BGP, etc	Static Routing, Policy routing, RIP, OSPF and BGP, etc	Static Routing, Policy routing
Firewall	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List
VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN	L2TP, IPSec
Remote Management	HTTP, Telnet, SSH, SMS SNMP V1/V2/V3, SNMP TRAP Hongdian Wedora Cloud Platform	HTTP, Telnet, SSH, SMS SNMP V1/V2/V3, SNMP TRAP Hongdian Wedora Cloud Platform	HTTP, Telnet, SSH, SMS SNMP V1/V2/V3, SNMP TRAP Hongdian Wedora Cloud Platform	HTTP, Telnet, SSH, SMS SNMP V1/V2/V3, SNMP TRAP Hongdian Wedora Cloud Platform	HTTP, Telnet, SSH, Hongdian Wedora Cloud Platform
Serial Ports Function	N/A	Transparent, Modbus RTU, etc	Transparent, Modbus RTU, etc	Transparent, Modbus RTU, etc	N/A
Power Supply and Consumption					
Connector	DC socket	DC socket	DC socket	DC socket	4 pin socket
Voltage Input	+5V~+36V DC	+9V~+54V DC	+5V~+36V DC	+9V~+36V DC	+9V~+12V DC
Power Consumption	Idle: 100mA@12V DC Data transceiving: 350mA@12V DC	Idle: 100mA@12V DC Data transceiving: 350mA@12V DC	Idle: 200mA@12V DC Data transceiving: 550mA@12V DC	Idle: 350mA@12V DC Data transceiving: 900mA@12V DC	Idle:100mA@12V DC Data transceiving: 270mA@12V DC
Others					
Reset Button	Yes	Yes	Yes	Yes	Yes
LED Indicators	4 indicators for WiFi, RF, NET, SYS	4 indicators for WiFi, System, Network, Signal	10 indicators for PWR, SYS, WAN, LAN1~LAN4, RF, NET, WLAN	9 indicators for PWR, NET1, NET2, DATA, WiFi 2.4GHz, WiFi 5GHz, Signal	1 network indicator 4 signal quality indicators
Hardware Watchdog	Yes	Yes	Yes	Yes	Yes
Physical Characteristics					
Ingress Protection	IP30	IP30	IP30	IP30	IP30
Housing & Weight	Metal, 300g	Metal, 480g	Metal, 540g	Metal, 550g	Aluminium housing, plastic panels , 120g
Dimension	99.7×98.8×23.4(mm)	147×98×36.6(mm)	176×105×25(mm)	177.8×105.2×28.5(mm)	93.7×74.9×23.7(mm)
Installations	Desktop, wall mounting	Desktop, wall mounting and 35 mm DIN rail mounting	Desktop, wall mounting	Desktop, wall mounting	Desktop, wall mounting and 35 mm DIN rail mounting
Operating Temperature	-30 ~ +75 °C	-30 ~ +70 °C	-30 ~ +70 °C	-30 ~ +75 °C	-30 ~ +75 °C
Storage Temperature	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C
Relative Humidity	≤ 95%(no condensing)	≤ 95%(no condensing)	≤ 95%(no condensing)	≤ 95%(no condensing)	≤ 95%(no condensing)
Certifications (*In progress)	CE, FCC	CE, FCC*	CE, FCC	CE*, FCC*	CE, RoHS

Industrial Cellular Gateway

Product	X1	X2	Z1	Z2
Hardware				
CPU	ARM Cortex-A7, 900MHz	Quad-core ARM Cortex A7, 717MHz	Quad-core ARM Cortex A7, 717MHz	Quad-core ARM Cortex A7, 717MHz
RAM	512MB	512MB	512MB	512MB
FLASH	8GB eMMC	32MB+8GB eMMC	32MB+8GB eMMC	32MB
SD Card	TF Card Slot	TF Card Slot	Built-in TF Card Slot	TF Card Slot
USB	N/A	USB2.0	USB2.0	N/A
Cellular Interface				
Modem	1 × LTE Cat4	1×LTE or 1×5G NR SA/NSA or 1×LTE+1×5G NR SA/NSA	1 × 5G NR SA/NSA	1 × 5G NR SA/NSA
Module Integration	Mini PCIe	Mini PCIe or M.2	Mini PCIe or M.2	M.2
Number of Antennas	2 (MAIN + AUX)	4(MAIN + AUX)	4 (MAIN + AUX)	4 (MAIN + AUX)
Connector	SMA-K	SMA-K	SMA-K	SMA-K
SIM	2 × Mini SIM (2FF)	2 × Mini SIM (2FF)	2 × Mini SIM (2FF)	2 × Mini SIM (2FF)
Ethernet Interface				
Number of Ports	2 x 10/100 Mbps, Ethernet	4 × 10/100/1000 Mbps, Gigabit Ethernet	4 × 10/100/1000 Mbps, Gigabit Ethernet	2 × 10/100/1000 Mbps, Gigabit Ethernet
Configuration	2 × LAN / 1 × LAN + 1 × WAN	4 × LAN / 3 × LAN + 1 × WAN	4 × LAN / 3 × LAN + 1 × WAN	2 × LAN / 1 × LAN + 1 × WAN
Wireless Interface				
Standards	802.11b/g/n, AP or station modes	802.11b/g/n/ac, AP or station modes	802.11b/g/n/ac, AP or station modes	802.11b/g/n, AP or station modes
Frequency Bands	2.4 GHz	2.4 GHz & 5 GHz	2.4 GHz & 5 GHz	2.4 GHz
Speed	150Mbps	1167Mbps	1167Mbps	150Mbps
Security	WPA, WPA2	WPA, WPA2	WPA, WPA2	WPA, WPA2
Encryption	64/128 AES, TKIP	64/128 AES, TKIP	64/128 AES, TKIP	64/128 AES, TKIP
Antennas	1	4	4	1 (only for WiFi version)
Connector	SMA-K	SMA-K	SMA-K	SMA-K
GNSS Interface				
Number of Antennas	N/A	1 (only for GPS version)	1 (only for GPS version)	1 (only for GPS version)
Connector	N/A	SMA-K with 50 ohms impedance	SMA-K with 50 ohms impedance	SMA-K with 50 ohms impedance
Dead Reckoning	N/A	N/A	Optional	N/A
Seiral Interface				
Type	1 × RS-232 + 1 × RS-485 serial port	1 × RS-232 + 1 × RS-485 serial port	1 × RS-232 + 1 × RS-485 serial port	1 × RS-232 + 1 × RS-485 serial port
Socket Form	1 × 7-pin 3.5 mm female socket	1 × 9pin 3.5 mm female socket	1 × 7-pin 3.5 mm female socket	1 × 7-pin 3.5 mm female socket
Signal Definition	RX, TX, GND (RS-232) , A+, B-, GND (RS-485)	RX, TX, GND (RS-232) , A+, B-, GND (RS-485)	RX, TX, GND (RS-232) , A+, B-, GND (RS-485)	RX, TX, GND (RS-232) , A+, B-, GND (RS-485)
Baudrate	RS-232 (300-115200bps), RS-485 (300-115200bps)	RS-232 (300-115200bps), RS-485 (300-115200bps)	RS-232 (300-115200bps), RS-485 (300-115200bps)	RS-232 (300-115200bps), RS-485 (300-115200bps)
ESD	15KV	15KV	15KV	15KV
Software				
Auto Fail-over	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	Between: 2 Cellulars Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)	Between: Cellular and WAN Cellular and Wi-Fi (station mode) WAN and Wi-Fi (station mode)
Network Protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH2, DDNS, etc.	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH2, DDNS, etc.	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH, DDNS, etc.	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH, DDNS, etc.
Routing	Static Routing, Policy routing, RIP, OSPF and BGP, etc	Static Routing, Policy routing, RIP, OSPF and BGP, etc	Static Routing, Policy routing, RIP, OSPF and BGP, etc	Static Routing, Policy routing, RIP, OSPF and BGP, etc
Firewall	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List
VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN
Remote Management	HTTP, Telnet, SSH Hongdian Wedora Cloud Platform	HTTP, Telnet, SSH, SMS SNMP V1/V2/V3, SNMP TRAP Hongdian Wedora Cloud Platform	HTTP, Telnet, SSH, SMS SNMP V1/V2/V3, SNMP TRAP Hongdian Wedora Cloud Platform	HTTP, Telnet, SSH, SMS SNMP V1/V2/V3, SNMP TRAP Hongdian Wedora Cloud Platform
Serial Ports Function	Transparent, Modbus RTU, etc	Transparent, Modbus RTU, etc	Transparent, Modbus RTU, etc	Transparent, Modbus RTU, etc
Power Supply and Consumption				
Connector	2 pin socket	DC socket or 2 pin socket	2 pin socket	2 pin socket
Voltage Input	+5V~36V DC	+9V~+48V DC	+9V~+24V DC	+9V~+24V DC
Power Consumption	Idle: 180mA@12V DC Data transceiving: 300mA@12V DC	Idle: 400mA@12V DC Data transceiving: 2A@12V DC	Idle: 450mA@12V DC Data transceiving: 2.2A@12V DC	Idle: 350mA@12V DC Data transceiving: 1.3A@12V DC
Others				
Reset Button	Yes	Yes	Yes	Yes
LED Indicators	1 network indicator, 4 signal quality indicators	4 indicators for WiFi, SIG, NET, SYS	4 indicators for WiFi, SIG, NET, SYS	4 indicators for WiFi, SIG, NET, SYS
Hardware Watchdog	Yes	Yes	Yes	Yes
Physical Characteristics				
Ingress Protection	IP40	IP40	IP66	IP40
Housing & Weight	Metal, 285g	Metal, 900g	Metal, 1860g	Metal, 290g
Dimension	127×83×24(mm)	180×125×48(mm)	216×216×51.5(mm)	137.0×83.0×24.0(mm)
Installations	Desktop, wall mounting and DIN rail mounting	Desktop, wall mounting and DIN rail mounting	Desktop, wall mounting and DIN rail mounting	Desktop, wall mounting and DIN rail mounting
Operating Temperature	-30 ~ +70 °C	-30 ~ +75 °C	-30 ~ +70 °C	-30 ~ +70 °C
Storage Temperature	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C
Relative Humidity	5 ~ 95% RH	5 ~ 95% RH	5 ~ 95% RH	5 ~ 95% RH
Certifications (*In progress)	CE*, FCC*	CE*, FCC*	CE*, FCC*	CE*, FCC*

Android Industrial Computer

Product	H9380P	H9380F	H9360	Q6101	Q6133
Hardware					
CPU	RK3399, highest frequency: 1.8GHz, 64 bits	RK3568, highest frequency: 2.0GHz, 64 bits	RK3568, highest frequency: 2.0GHz; 64 bits	RK3568, highest frequency: 2.0GHz; 64 bits	RK3568, highest frequency: 2.0GHz; 64 bits
NPU	N/A	0.8TOPS	0.8TOPS	0.8TOPS	0.8TOPS
Memory	2GB	2GB	2GB	2GB	2GB
Connector	16GB	8GB	8GB	8GB	8GB
Cellular Interface					
Modem	1 × LTE Cat4	1 × LTE Cat4	1 × LTE Cat4	1 × LTE Cat4	1 × LTE Cat4
Number of Antennas	1 (MAIN)	1 (MAIN)	1 (MAIN)	1 (MAIN)	1 (MAIN)
SIM	1 × Mini SIM (2FF)	1 × Mini SIM (2FF)	1 × Mini SIM (2FF)	1 × Mini SIM (2FF)	1 × Mini SIM (2FF)
Wireless Interface					
Standards	N/A	802.11b/g/n, AP or station modes	802.11b/g/n, AP or station modes	802.11b/g/n, AP or station modes	802.11b/g/n, AP or station modes
Frequency Bands	N/A	N/A	2.4 GHz	2.4 GHz	2.4 GHz
Speed	N/A	N/A	150Mbps	150Mbps	150Mbps
Antennas	N/A	N/A	1	1	1
GNSS Interface					
Number of Antennas	N/A	1	N/A	N/A	N/A
Peripheral Interface					
Serial	3 × RS-232 (1 RS232 port can be configured as a RS485 port), DB9 male connector ; 1 × RS-485 serial port, 3-pin 3.5 mm female socket	4 × RS-232 (2 RS232 port can be configured as a RS485 port),DB9 male connector ; 1 × RS-485 serial port, 3-pin 3.5 mm female socket	2 × RS-232 + 2 × RS-485 serial port, 10-pin 2 mm female socket	2 × RS-232 + 2 × RS-485 serial port, 10-pin 2 mm female socket	2 × RS-232, DB9 male connector
Ethernet	1 × 10/100/1000 Mbps, Gigabit Ethernet	1 × 10/100/1000 Mbps, Gigabit Ethernet	1 × 10/100 Mbps, Ethernet	1 × 10/100 Mbps, Ethernet	1 × 10/100 Mbps, Ethernet
USB	USB 2.0 × 4, USB 3.0 × 2, OTG × 1	USB 2.0 × 6, OTG × 1	USB 2.0 × 5, OTG × 1	USB 2.0 × 4, OTG × 1	USB 2.0 × 4, OTG × 1
Display	HDMI 2.0 × 1	HDMI 2.0 × 1, LVDS × 1	HDMI 2.0 × 1, LVDS × 1 , MIPI × 1	HDMI 2.0 × 1	HDMI 2.0 × 1
Display Performance					
Liquid Crystal	N/A	N/A	N/A	LED Display Screen	LED Display Screen
Screen Size	N/A	N/A	N/A	10.1 inch	13.3 inch
Resolution	N/A	N/A	N/A	1280×800	1920×1080
Brightness	N/A	N/A	N/A	250cd/m2	250cd/m2
Contact Performance					
Transmittance	N/A	N/A	N/A	≥85%	≥85%
Glass Material	N/A	N/A	N/A	Tempering glass	Tempering glass
Max Touch Points	N/A	N/A	N/A	Simultaneous 10-Point Touch	Simultaneous 10-Point Touch
Software					
Operating System	Android 7.1.2/Linux	Android 11/Linux	Android 11/Linux	Android 11/Linux	Android 11/Linux
Video code	H.265/H.264/VP9 4K@60fpsHD video decoding	H.265/H.264/VP9 4K@60fpsHD video decoding H.265/H.264/VP9 1080P@100fpsHD video decoding	H.265/H.264/VP9 4K@60fpsHD video decoding H.265/H.264/VP9 1080P@100fpsHD video decoding	H.265/H.264/VP9 4K@60fpsHD video decoding H.265/H.264/VP9 1080P@100fpsHD video decoding	H.265/H.264/VP9 4K@60fpsHD video decoding H.265/H.264/VP9 1080P@100fpsHD video decoding
Image processing	BMP, JPG, PNG, GIF	BMP, JPG, PNG, GIF	BMP, JPG, PNG, GIF	BMP, JPG, PNG, GIF	BMP, JPG, PNG, GIF
Power Supply and Consumption					
Connector	4 pin socket	DC socket	DC socket	DC socket	DC socket
Voltage Input	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	Less than 10W (only system)	Less than 10W (only system)	Less than 10W (only system)	Less than 15W (only system)	Less than 18W (only system)
Others					
Reset Button	Yes	Yes	Yes	Yes	Yes
LED Indicators	4 indicators for PWR, SYS, 4G, WiFi	3 indicators for PWR, SYS, 4G	3 indicators for PWR, SYS, 4G	3 indicators for PWR, SYS, 4G	3 indicators for PWR, SYS, 4G
Hardware Watchdog	Yes	Yes	Yes	Yes	Yes
Physical Characteristics					
Ingress Protection	IP30	IP30	N/A	IP30	IP30
Housing & Weight	Metal	Metal	N/A	Metal	Metal
Dimension	170×150×27mm	210×130×44.6mm	150×92.0mm	256×170×36.3 mm	325.2×196.77×39.4mm
Installations	Wall-mounting	Wall-mounting	Wall-mounting	Wall-mounting	Wall-mounting
Operating Temperature	-20 ~ +70 °C	-20 ~ +70 °C	-20 ~ +70 °C	0 ~ +50 °C	0 ~ +50 °C
Storage Temperature	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-20 ~ +70 °C	-20 ~ +70 °C
Relative Humidity	5 ~ 95% RH	5 ~ 95% RH	5 ~ 95% RH	5 ~ 95% RH	5 ~ 95% RH

5G CPE

Product	A500Q		A500M	H101C	A530Q	
	A500Q-EA	A500Q-NA			A530Q-CN	A530Q-EA
Chipset	Qualcomm X62		MTK MT750	Unisoc IVY510	Qualcomm X55	
Cellular						
Standard	3GPP Rel-16 NSA/SA		3GPP Rel-15 NSA/SA	3GPP Rel-15 NSA/SA	3GPP Rel-15 NSA/SA	
Region	EMEA/Oceania/Brazil	North America	EMEA/Oceania/Brazil	For EMEA and related countries	For China	For EMEA, Korea, Australia and related countries
NR bands	5G NSA & SA:n1/n3/n5/n7/n8/ n20/n28/n38/n40/n41/n75/n76/ n77/n78	5G NSA & SA:n2/n5/n7/n12/ n13/n14/n25/n26/n29/n30/n38/ n41/n48/n66/n70/n71/n77/n78	5G NSA & SA: n1/n3/n5/n7/n8/n20/n28/n38/ n40/n41/n77/n78	NSA: n1/n3/n7/n38/n40/n41/n77/n78/n79 SA: n1/n3/n7/n8/n20/n28/n38/n40/n41/n77/ n78/n79	NSA: n41/n78/n79 SA: n1/n28/n41/n78/n79	NSA: n40/n41/n77/n78/n79 SA: n1/n3/n28/n40/n41/n77/ n78/n79
MIMO	5G DL 4×4 MIMO on: n1/n3/n5/ n7/n8/n20/n28/n38/n40/n41/ n75/n76/n77/n78	5G DL 4 × 4 MIMO on: n2/n5/n7/ n12/n14/n25/n29/n30/n38/n41/ n48/n66/n70/n71/n77/n78	DL 4×4 MIMO on: n1/n3/n38/n40/n41/n77/ n78	DL 4 × 4 MIMO on: n1/n3/n7/n38/n40/n41/ n77/n78/n79	DL 4 × 4 MIMO on: n1/n41/n78/ n79	DL 4 × 4 MIMO on: n1/n3/n40/ n41/n77/n78/n79
LTE Category	DL Cat 19/ UL Cat 18		DL Cat 19/ UL Cat 18	DL Cat 12/ UL Cat 13	DL Cat 20/ UL Cat 18	
LTE-FDD	B1/B3/B5/B7/B8/B20/B28/B32	B2/B4/B5/B7/B12/B13/B14/B17/ B25/B26/ B29/B30/B66/B71	B1/B3/B5/B7/B8/B20/B28/B32	B1/B2/B3/B4/B5/B7/B8/B20/B28/B66	B1/B3/B5/B8/B28	B1/B3/B5/B7/B8/B18/B19/B20 /B28
LTE-TDD	B38/B40/B41/B42/B43	B38/B41/B42/B43/B48	B38/B40/B41/B42/B43	B38/B40/B41	B34/B38/B39/B40/B41	B34/B38/B39/B40/B41/B42
WCDMA	B1/B5/B8	N/A	B1/B5/B8	B1/B2/B5/B8	B1/B8	B1/B3/B5/B8
Built-in Antenna	4G/5G antenna × 4		4G/5G antenna × 8	4G/5G antenna × 4	4G/5G antenna × 6	
Max Data Rates	5G NSA Sub-6: 3.2Gbps (DL)/600 Mbps (UL) 5G SA Sub-6: 2.4Gbps (DL)/900 Mbps (UL) LTE: 1.6 Gbps (DL)/200 Mbps (UL) A500Q-EA: WCDMA: 42 Mbps (DL)/5.76 Mbps (UL)		5G NSA Sub-6: 3.74Gbps (DL)/1.46Gbps (UL) 5G SA Sub-6: 4.67Gbps (DL)/2.5Gbps (UL) LTE: 1.4Gbps (DL)/211Mbps (UL) WCDMA: 42 Mbps (DL)/5.76 Mbps (UL)	5G NSA Sub-6: 2.2 Gbp(DL)/575 Mbps (UL) 5G SA Sub-6: 2Gbps (DL)/ 1Gbps(UL) LTE: 400 Mbps (DL)/150 Mbps (UL)	5G NSA Sub-6: 2.5Gbps (DL)/650Mbps (UL) 5G SA Sub-6: 2.1Gbps (DL)/900Mbps (UL) LTE: 2 Gbps (DL)/200 Mbps (UL) WCDMA: 42 Mbps (DL)/5.76 Mbps (UL)	
Wireless						
Standard	Wi-Fi 6, 802.11 a/b/g/n/ac/ax		Wi-Fi 6, 802.11 a/b/g/n/ac/ax	Wi-Fi 5, 802.11 a/b/g/n/ac	Wi-Fi 6, 802.11 a/b/g/n/ac/ax	
2.4 GHz	2 × 2 MIMO, 576Mbps		4 × 4 MIMO, 1200Mbps	2 × 2 MIMO, 300Mbps	2 × 2 MIMO, 574Mbps	
5 GHz	4 × 4 MIMO, 4804Mbps		4 × 4 MIMO, 2400Mbps	2 × 2 MIMO, 867Mbps	2 × 2 MIMO, 1201Mbps	
Max User	128		64	64	32	
Built-in Antenna	Wi-Fi antenna × 6 (MU MIMO)		Wi-Fi antenna × 4 (MU MIMO)	Wi-Fi antenna × 4 (MU MIMO)	Wi-Fi antenna × 2 (MU MIMO)	
Interface						
LED	Power, Wi-Fi, 4G, 5G		Power, Wi-Fi, 4G, 5G	Power, Wi-Fi, 4G, 5G	1 × LED for 4G & 5G	
SIM	Nano SIM		Nano SIM	Micro SIM	Nano SIM	
Button	RESET, WPS, Power (Optional)		RESET, WPS, Power (Optional)	RESET, Power, WPS	RESET	
Ethernet	1 GigE LAN		1 GigE LAN	1 GigE LAN	N/A	
	1 2.5GigE WAN/LAN		1 GigE WAN/LAN	1 GigE WAN/LAN	N/A	
Tel Port	RJ11*1		RJ11*1	N/A	N/A	
Power Supply						
Power Input	Power adaptor, DC socket		Power adaptor, DC socket	Power adaptor, DC socket	Type-C cable	
Voltage	12V/3A		12V/2A	12V/1.5A	5V/1A	
Others						
Weight	Approx. 800g		Approx. 610g	Approx. 450g	Approx. 102g	
Size	101 × 101 × 208.8mm		94.3 × 107.1 × 186.5mm	175 × 175 × 48.5mm	124 × 73.5 × 17.5mm	
Operating Temperature	-10 ~ +45°C		-10 ~ +55°C	-10 ~ +45°C	-10 ~ +40°C	
Storage Temperature	-30 ~ +75°C		-20 ~ +70°C	-40 ~ +70°C	-20 ~ +60°C	
Relative Humidity	≤ 95%(no condensing)		≤ 95%(no condensing)	≤ 95%(no condensing)	≤ 95%(no condensing)	

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