



InHand Networks



High Performance, Excellent Stability

InBOX712 Series

Industrial-grade Embedded Box PC

The InBOX712 is the new-generation 4G intelligent terminal launched by InHand Networks specially for smart business. It carries the RK3399 CPU. It provides omnipresent and continuous Internet access in 3G, 4G, and wireless modes. It can update payment data to a cloud management platform in real time, and implement remote monitoring and management on the platform. It provides software and hardware configuration with improved performance and stability at reduced power consumption to make data transmission smoother and more stable.

Currently, the InBOX712 provides one SIM card interface (supporting 4G wireless networks), two HDMI interfaces, three 232 serial ports, five USB interfaces (including one USB 3.0 interface), one Type C interface, one Ethernet port, one Wi-Fi antenna interface, and one 4G antenna interface.

The InBOX712 provides a power interface that adopts 12V DC power input and a wide temperature range, which is specially designed for industrial applications.

The InBOX712 is particularly suitable for large-scale network connection of machines and device operation management, for example:

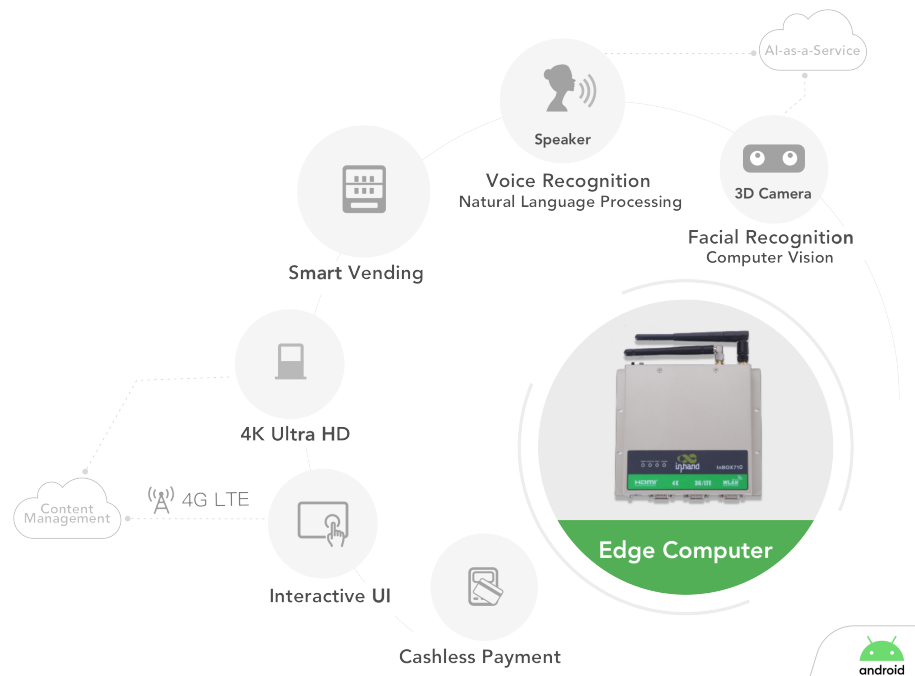
- Industrial control
- Facial recognition
- Dual-screen different display
- Self-service retail
- Advertising
- Self-checkout terminal
- Supermarket self-checkout

+ Digital Signage

+ Self-service Kiosks

+ Micro Market

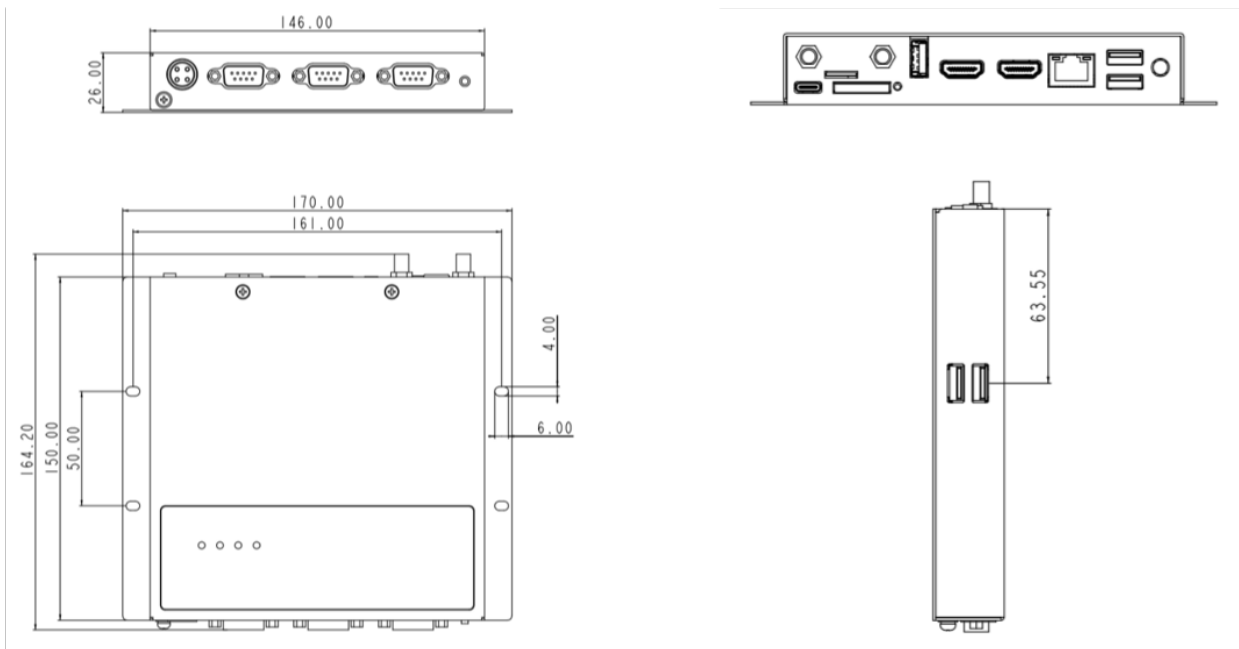
+ Smart Vending



Features and Advantages

- + ARM Dual-core Cortex-A72 & Quad-core Cortex-A53
- + Android 7.1, Linux (Debian)
- + 4G LTE, Wi-Fi, Ethernet
- + HDMI
- + Serial
- + USB 3.0
- + 16GB Flash
- + Fanless Design
- **Supports Android OS**
The InBOX712 supports Android 7.1 operating system and allows users to install software as required.
- **Uninterrupted Internet access**
The InBOX712 is built with 4G、 Wi-Fi、 Ethernet port and Bluetooth. Multiple means of Internet access keep field equipment always online, making connectivity stable and reliable.
- **Industrial design ensures stable and reliable performance**
The InBOX710 adopts a wide temperature range and high EMC rating to ensure stable operation of devices in the industrial field and/or 24-hour unattended environments.

Dimensions (mm)



Product Specifications

InBOX712 Hardware Specifications			
Item	InBOX712		
Hardware Platform			
CPU	RK3399; dominant frequency: 1.8 GHz		
Memory	2GB DDR3		
FLASH	16GB eMMC		
Interfaces			
Serial Port	RS232 × 3, or RS232 × 2+RS485 × 1		
Power Interface	12V DC-input × 1 (self-lock four-core circular interface)		
USB Port	USB 2.0 × 4, USB 3.0 × 11.5A		
SIM Card Slot	Drawer-type card holder × 1		
SD Card Slot	SD card slot × 1		
3G/4G Antenna Interface	SMA × 1		
Wi-Fi Antenna Interface	RP-SMA × 1		
Ethernet	10/100/1000Mbps × 1		
HDMI	HDMI1 (default value: 1366×768), resolution modifiable, audio output HDMI2 (fixed value: 1920×1080), resolution unmodifiable, no audio output		
4K	HDMI1 supports 3840×2160 output		
Debugging Interface	Type C Interface × 1		
On/off Button	Power × 1		
Other Button	Mode × 1		
Indicators			
Power Indicator	Indicator of power supply, on when power on		
Status Indicator	Indicator of operation status, flashes when operating normally		
Wi-Fi Indicator	Indicator of Wi-Fi connection, on when connected		
3G/4G Indicator	Indicator of 3G/4G network connection, on when connected		
Mechanical Features			
Installation	Wall mounting	Protection Rating	IP40
Housing	Metal	Cooling	Fan-less cooling
Dimensions (cm)	17×15×2.6		
Hardware Detection			
Watchdog	Supported		
Hardware Information API	Custom API for hardware information reading		
Ambient Temperature and Humidity			
Storage Temperature	-40°C ~ 85°C	Ambient Humidity	5 ~ 95% (non-condensing)
Operating Temperature	-20°C ~ 70°C (industrial grade)		
EMC			
ESD	Level 3		
Surge	Level 3		
EFT	Level 3		
Other			
Real-time Clock (RTC)	Embedded real-time clock (RTC), power supply with Button batteries		
Audio	HDMI audio output		
Power Consumption	Less than 10W		

InBOX712 Software Specifications	
Item	InBOX712
Software Support	
Operating System	Android 7.1
Application Software	Applications compatible with Android OS
	Supports APIs including remote update and silent installation
	Supports B/S media publish system
Network Functions	
Network Type	4G full netcom
Wi-Fi	802.11b/g/n, supports Client/AP mode
Bluetooth	Bluetooth 5.0
Graphic Processing	
Processing Capability	Double ISP pixel processing capability up to 800 MPix/s, with support for simultaneous data input from two cameras, and high-level processing such as 3D and deep information extraction
Video Codec	H.265/H.264/VP9 4K@60 fps HD video decoding
Image Processing	BMP, JPG, PNG, GIF
Configuration	
Configuration	Configuration software provided
Timed On/Off	Supported
Upgrading	
Upgrading Operation	Local USB upgrade and remote upgrade (optional)
Certificate	
Certificate	CE, FCC, IE

Ordering Guide

Model code: InBOX712-<WMNN>-<STD/PLAT/L>-<S>					
Model	Region (Operator)	Network Type	<WMNN>: Cellular Type & Module	<STD/PLAT>: Version	<S>: Serial Port
InBOX712-DQ25-STD	EMEA South Korea Thailand India	LTE-FDD	LTE-FDD B1/ B3/ B7/ B8/ B20/ B28A WCDMA B1/B8 GSM/EDGE B3/B8	STD: Android 7.1	RS232x3
InBOX712-DQ25-PLAT	EMEA South Korea Thailand India	LTE-FDD	LTE-FDD B1/ B3/ B7/ B8/ B20/ B28A WCDMA B1/B8 GSM/EDGE B3/B8	PLAT: Supports InVending SaaS	RS232x3
InBOX712-FQ88-STD	Japan	LTE-FDD	LTE-FDD Band 1/ 3/ 8/18/19/26 LTE-TDD Band 41 WCDMA Band 1/6/8/19	STD: Android 7.1	RS232x3
InBOX712-FQ39-STD	North America	LTE-FDD	B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66 2xCA B2+B2/B5/B12/B13/B29; B4+B4/B5/B12/B13/B29; B7+B5/B7/B12/B26; B25+B5/B12/B25/B26; B30+B5/B12/B29; B66+B5/B12/B13/B29/B66 WCDMA B2/B4/B5	STD: Android 7.1	RS232x3
InBOX712-FQ58-STD-485	EMEA South Korea Thailand India	LTE-FDD	LTE-FDD B1/ B3/ B7/ B8/ B20/ B28A WCDMA B1/B8 GSM/EDGE B3/B8	STD: Android 7.1	RS232x2, RS485x1

About Us

InHand Networks is a global leader of Industrial IoT, with a record of tremendous success following groundbreaking innovation since our inception in 2001.

InHand serves world-class partners and customers with industrial M2M routers, gateways, industrial Ethernet switches, rugged computers and IoT management platforms. We provide IoT solutions for various vertical markets including Smart Grid, Industrial Automation, Remote Machine Monitoring, Smart Vending, Smart City, Retail and more.

Proudly bearing the marks of AWS Select Technology Partner, Schneider Electric CAPP Certified Technology Partner, and Rockwell Automation Encompass Product Partner in Asia-Pacific, InHand Networks defines industrial innovation and reliability.



43671 Trade Center Place, Suite 100, Dulles, VA 20166, USA
T: +1 (703) 348-2988
E: info@inhandnetworks.com
www.inhandnetworks.com