InHand Networks

High-performance, Stable, ARM Industrial Computer

# InBOX710

## Meets various peripheral expansion needs, promoting your digitalization process

With the deepening of modernization, businesses are facing increasingly complex and diverse tasks and demands, spanning various sectors such as production, manufacturing, logistics, warehousing, operations, and retail. These processes require extensive data collection, transmission, processing, and real-time interaction to achieve automation control, intelligent management, and decision support. At the same time, businesses need equipment that can operate stably for extended periods and facilitate efficient communication to ensure the continuity of production and operations.

Based on this, InHand Corporation has introduced the 4G high-performance smart terminal, InBOX710, tailored for the industrial and business sectors. InBOX710 offers higher performance, lower power consumption, and a more stable combination of software and hardware, ensuring smoother and more stable data transmission. It comes equipped with a variety of peripheral interfaces such as RS232, RS485, USB, HDMI, and Ethernet, making it suitable for diverse enterprise needs in different scenarios. It offers optional Android and Linux operating systems, facilitating user-friendly development of necessary applications. This assists customers in local data collection and real-time stable uploads to third-party cloud management platforms, enabling remote monitoring and management on the cloud platform.

InBOX710 adopts an industrial-grade design, supporting 12V power input and a wide temperature operating range. It is designed for industrial applications, providing Level 3 EMC protection, ensuring the stable operation of customer devices.

The InBOX710 series of industrial computers are particularly well-suited for data integration, operational management, and equipment networking solutions in the industrial and commercial sectors:

- Self-service vending machines
- Unmanned supermarkets
- Self-checkout terminals
- Smart parcel lockers
- Intelligent charging cabinets
- Large industrial and commercial equipment
- Medical devices

## Application

# Features and Advantages

+ Supports 4G, WiFi, Bluetooth
+ Six-core processor
+ 2GB RAM/16GB storage
+ Supports 4K video output
+ Support 100M network port
+ Supports 2*RS232, 1 * RS485/RS232
+ Equipped with 2 USB2.0 ports, 1 USB3.0 port
+ Metal casing, IP40 protection rating
+ EMC protection level: Level 3
+ Supports a wide temperature range of -20° C to 70° C

## Stable High-Speed, Seamless Network Connectivity

InBOX710 supports various network connection methods such as 4G, WiFi, and wired, adapting to different machine deployment environments and on-site network requirements. At the same time, its exceptionally high network connectivity stability helps you effortlessly handle various data transmission needs, ensuring uninterrupted device communication and providing you with a seamless network access experience anytime, anywhere

## Powerful Configuration, Infinite Possibilities

InBOX710 is equipped with a high-performance processor, unafraid of computations, effortlessly handling and perfectly addressing applications with complex computational requirements. Additionally, it boasts a rich array of interfaces and expansion capabilities, supporting the connection and integration of various peripherals, offering customers endless possibilities for expansion.

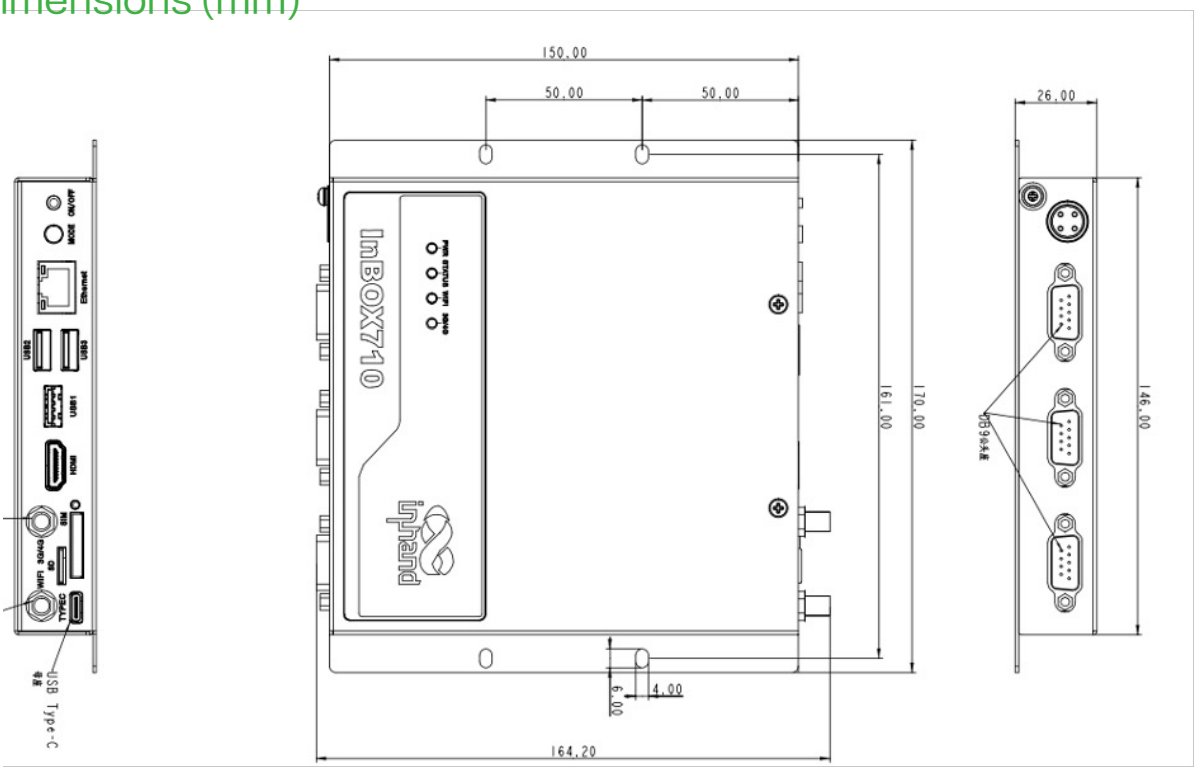
## Deep Optimization, Support for Multiple Operating Systems

The InBOX710 product offers a choice of Android/Linux operating systems, perfectly compatible with third-party applications. It has also undergone deep optimization of the operating system itself, ensuring the long-term stability of both the system and customer applications, providing you with a flexible and versatile app development environment.

## Industrial Design, Long-Term Reliability Assurance

The InBOX710 product adopts an industrial-grade design coupled with a deeply optimized operating system, providing stable performance and reliable quality. It can adapt to various environments and working conditions, ensuring that customer devices can operate continuously and stably, reducing failures and downtime, and consistently delivering value to customers.

# Dimensions (mm)



# Product Specifications

| InBOX710 Hardware Specifications | | | |
|---|---|---|---|
| Item | InBOX710 | | |
| **Hardware Platform** | | | |
| CPU | RK3399; dominant frequency: 1.8 GHz | | |
| RAM | 2GB | | |
| FLASH | 16GB | | |
| **Interfaces** | | | |
| Power | 12V DC-input *1 (self-lock four-core circular interface); | | |
| USB | USB2.0 * 2 ; USB3.0 * 1 | | |
| Serial Port | RS232 *2, DB9;<br>RS232/RS485 *1, DB9; | | |
| SIM Card Slot | Drawer-type SIM card holder * 1 ; | | |
| SD Card Slot | Drawer-type SD card holder *1 | | |
| 3G/4G Antenna | SMA *1; | | |
| Wi-Fi Antenna | RP-SMA *1; | | |
| Ethernet Port | 10/100Mbps *1, LAN/WAN; | | |
| HDMI | HDMI 2.0 x 1 output Resolution: 4096×2160 (4K), 1920x1080, 1366x768, 1280x720, 1024x768, with audio | | |
| Debugging | TypeC interface *1; | | |
| Power Button | Power button (Power) *1; | | |
| Other Buttons | Mode key (Mode) *1; | | |
| **Mechanical Specs** | | | |
| Installation | Wall mount | Protection Rating | IP40; |
| Housing | Metal | Cooling | Fanless |
| Dimensions | 17cm * 15cm * 2.6cm (includes mounting hardware) | | |
| **Environment** | | | |
| Storage Temp. | -40 ~ 85℃; | Ambient Humidity | 5 ~ 95% (non-condensing) |
| Working Temp. | -20~ 70℃; | | |
| **Indicator** | | | |
| power light | Power supply indicator light, always on after power on; | | |
| status light | The status indicator light flashes during normal operation; | | |
| Wi-Fi light | WIFI connection indicator light is always on when connected normally; | | |
| 3G/4G light | 3G/4G connection indicator light is always on when connected normally; | | |
| **EMC** | | | |
| ESD | level 3; | | |
| EFT | level 3; | | |
| Surge | level 3; | | |
| **Other** | | | |
| RTC | Embedded RTC, power supply with Button batteries | | |
| Power consumption | The whole machine is less than 10w; (without peripherals) | | |
| Certification | CCC、CE、FCC、IC | | |

| InBOX710 Software Specifications | |
|---|---|
| Item | InBOX710 |
| **Software Support** | |
| OS | Linux(Debian9) / Android |
| **Network** | |
| Network | 4G; |
| WIFI | Support, 802.11b/g/n, support Client/AP mode; |
| Bluetooth | Bluetooth 4.2 |
| **Graphics Processing** | |
| Processing Power | Dual ISP pixel processing capacity is up to 800MPix/s, supports dual camera data input at the same time, and supports high-end processing such as 3D and depth information extraction; |
| Video Codec | H.265/H.264/VP9 4K@60fps HD video decoding; |
| Image Processing | BMP, JPG, PNG, GIF |
| **Configuration** | |
| Timer switch | support; |
| **Upgrade** | |
| System Upgrade | Local USB upgrade |

# Ordering Guide

| Model | Model Number: InBOX710-<WMNN>-<STD/PLAT/L>-<A>-<S> | | | |
|---|---|---|---|---|
| | Region | <WMNN>: Cellular Networks | <STD/PLAT/L>: OS | <S>:Serial port type |
| **InBOX710-DQ20-L/STD** | China | LTE FDD: B1/B3/B5/B8<br>LTE TDD: B34/B38/B39/B40/B41<br>WCDMA: B1/B8<br>TD-SCDMA: B34/B39<br>CDMA/EVDO: BC0<br>GSM/EDGE: 900/1800MHz | L: Debian<br>STD: Android | |
| **InBOX710-DQ20-L/STD-485** | China | LTE FDD: B1/B3/B5/B8<br>LTE TDD: B34/B38/B39/B40/B41<br>WCDMA: B1/B8<br>TD-SCDMA: B34/B39<br>CDMA/EVDO: BC0<br>GSM/EDGE: 900/1800MHz | L: Debian<br>STD: Android | RS485 *1 |
| **InBOX710-FQ58-L/STD** | EMEA | LTE-FDD B1/B3/B7/B8/B20/B28A<br>WCDMA B1/B8<br>GSM/EDGE B3/B8 | L: Debian<br>STD: Android | |
| **InBOX710-FQ58-L/STD-485** | EMEA | LTE-FDD B1/B3/B7/B8/B20/B28A<br>WCDMA B1/B8<br>GSM/EDGE B3/B8 | L: Debian<br>STD: Android | RS485 *1 |
| **InBOX710-FQ39-L/STD** | North America | LTE-FDD<br>B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66 2×CA<br>B2+B2/B5/B12/B13/B29; B4+B4/B5/B12/B13/B29;<br>B7+B5/B7/B12/B26;<br>B25+B5/B12/B25/B26;<br>B30+B5/B12/B29;<br>B66+B5/B12/B13/B29/B66<br>WCDMA B2/B4/B5 | L: Debian<br>STD: Android | |
| **InBOX710-FQ39-L/STD-485** | North America | LTE-FDD<br>B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66 2×CA<br>B2+B2/B5/B12/B13/B29; B4+B4/B5/B12/B13/B29;<br>B7+B5/B7/B12/B26;<br>B25+B5/B12/B25/B26;<br>B30+B5/B12/B29;<br>B66+B5/B12/B13/B29/B66<br>WCDMA B2/B4/B5 | L: Debian<br>STD: Android | RS485 *1 |
| **InBOX710-EN00-L/STD** | - | - | L: Debian<br>STD: Android | |
| **InBOX710-EN00-L/STD-485** | - | - | L: Debian<br>STD: Android | RS485 *1 |

## About Us

InHand Networks is a leading IoT solutions provider founded in 2001, dedicated to driving digital transformation across industries and empowering customers to unlock their full potential and achieve accelerated growth.

We specialize in delivering industrial-grade connectivity solutions for diverse sectors, such as enterprise networks, industrial and building IoT, digital energy, smart commerce, and mobility. Our comprehensive product portfolio and services cater to various applications worldwide, including smart manufacturing, smart grid, intelligent transportation, smart retail, etc. With a global footprint spanning over 60 countries, we serve customers in China, the United States, France, Germany, the United Kingdom, Italy, and beyond.

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