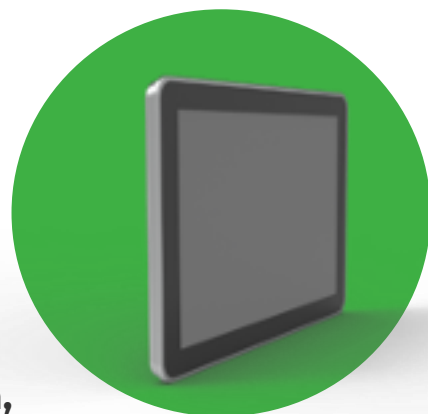# InHand Networks

10.1" All-in-One Android Tablet
InPAD3101 series

Real-time interface display and interaction, guarantee stable and reliable operation

With the deepening of modernization, businesses are facing increasingly complex and diverse tasks and requirements involving multiple processes such as production, manufacturing, logistics, warehousing, operations, and retail. These processes require extensive data collection, transmission processing, and real-time interaction to achieve automated control, intelligent management, and decision support. At the same time, enterprises need devices that can run stably for long periods and communicate efficiently to ensure business continuity.

Based on this, InHand has launched the 4G high-performance smart terminal, InPAD3101, designed for the industrial and commercial sectors. InPAD3101 provides higher performance, lower power consumption, and more stable hardware and software configurations, enabling smoother and more stable data transmission. It comes with a high-brightness touch screen to facilitate human-machine interaction and is equipped with various external interfaces such as RS232, RS485, USB, and Ethernet, making it adaptable to diverse enterprise needs in different scenarios. It offers optional Android operating systems in multiple versions, making it convenient for users to develop required applications, helping them collect local data and upload it in real-time to third-party cloud management platforms, facilitating remote monitoring and management on the cloud platform.

InPAD3101 adopts an industrial-grade design, supporting 12V power input and a wide operating temperature range. With high EMC protection designed for industrial applications, it ensures the stable operation of customer devices.

InPAD3101 series industrial computers are especially well-suited for data integration, operational management, and equipment networking solutions in the industrial and business sectors.

- **Self-service vending machine**
- **Unmanned supermarket**
- **Self-service checkout terminal**
- **Smart Express Cabinet**
- **Smart charging cabinet**
- **Garbage recycling cabinet**
- **Medical equipment**

Topology

InPAD3101
Industrial Tablet PC

Self-check

Self-service intelligent locker

Vending machine

Micro market

Real-Time Commodity Prices

Features and Advantages

+ Support 4G, WiFi, Bluetooth

+ Equipped with RK3288 mainstream processor

+ 10.1-inch high-brightness capacitive touch display

+ Support Android7

+ Support 100M network port

+ Support 2-way RS232, 2-way RS485

+ Equipped with 4 USB

+ Screen IP65 protection level

+ EMC protection design

+ Wide temperature operating range

● **Stable and high-speed, convenient network connectivity anywhere**

InPAD3101 supports various network connection methods, including 4G, WiFi, and wired connections, effortlessly catering to network requirements in parks, offices, commercial areas, and more. Its exceptional network stability ensures you can easily handle diverse data transfer needs, providing you with a seamless network access experience anytime, anywhere.

● **Powerful configuration, unlimited possibilities**

InPAD3101 series is equipped with the RK3288 quad-core processor, ensuring smooth running of various application apps. It also offers abundant interfaces and expansion capability, supporting the connection and integration of multiple peripherals to expand product functionality and services.
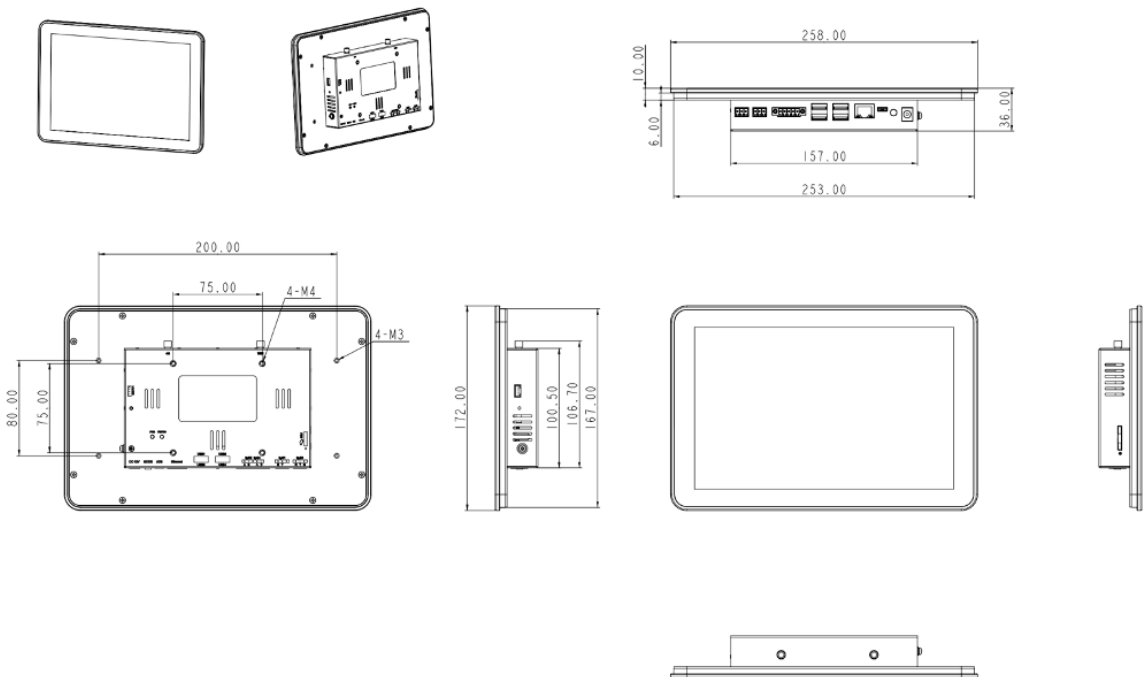
● **Deeply optimized, supporting multiple system versions**

InPAD3101 series supports multiple versions of the Android operating system, perfectly compatible with the deployment and operation of various customer applications. The operating system itself has undergone deeply optimization to ensure long-term stability of the system and actual applications, providing a flexible app development environment.

● **Industrial-grade design, guarantee long-lasting operation**

With industrial-grade design, InPAD3101 is paired with deeply optimized Android systems, offering stable performance and reliable quality. It is suitable for various environments and working conditions, ensuring the continuous and stable operation of devices, minimizing failures and downtime, enhancing device reliability, and delivering sustained value to customers.

Dimensions

InHand Networks

Specifications

InPAD3101 Hardware Specifications

item	InPAD3101
Hardware Platform	
CPU	RK3288 quad-core, Cortex-A17 processor, main frequency 1.6GHz
Memory	2GB
FLASH	8GB
Display	Size: 10.1" display Resolution; 1280x800 Brightness: 450cd/m² (typ.) Contrast: 800:1 Viewing angle: full viewing angle
Touch Screen	Capacitive touch screen
Interfaces	
232 Serial Port	RS232 serial port *2, 3pin industrial terminal, spacing 3.5mm, no flange [respectively ttyS1, ttyS3, of which ttyS3 is the debug serial port by default, and can be configured as a common serial port]
485 Serial Port	RS485 serial port *2, one 5pin industrial terminal, pitch 3.5mm, with flange [respectively ttyS2, ttyS4]
Power Interface	Power input: DC-input, 12V, the power interface is a circular inter-face Power-on auto-start: the machine starts automatically when there is an incoming call
USB	USB2.0*4, support various USB peripherals
SIM Card Slot	SIM card slot ×1, standard SIM card size
Antenna Interface	4G：SMA × 1；Wi-Fi：RP-SMA × 1
Ethernet	10/100Mbps *1, WAN/LAN
Audio Port	SPK*1; 2-channel 8-ohm 5W speakers can be connected externally, socket specification: 2.0mm 4Pin
Debugging Interface	ADB*1, can be used for debugging
Button	Mode*1 Power button *1: Long press to restart, short press to pop up the restart interface

Mechanical Features

Installation	Wall mounting	Protection Rating	IP65 (at the front screen) *
Housing	Metal	Cooling	Fan-less cooling
Dimensions	25.8cm*17.2cm*3.6cm		

Ambient Temperature and Humidity

Storage Temperature	-40 ~ 85℃	Ambient Humidity	5 ~ 95% (non-condensing)
Operating Temperature	-10~ 60℃		

Indicators

Power Indicator	Power supply indicator, always on after power on
Status Indicator	Status indicator, blinking during normal operation

EMC

ESD	Level 2	Surge	Level 2
EFT	Level 2		

Other

Real-time Clock (RTC)	Built-in Real Time Clock (RTC)
Power Consumption	The whole machine is less than 10W
Watchdog	Supports
Certification	CE

InPAD3101 Software Specifications

item	InPAD3101
Software Support	
Operating System	Android7.1
Application Software	Applications compatible with Android OS
Network Functions	
Network Type	4G Network
Wi-Fi	802.11b/g/n, supports Client/AP mode
Bluetooth	Bluetooth 4.2
Graphic Processing	
Multimedia	Support 4K 10bits H265/H264 video decoding； 1080P multi-format video decoding (VC-1, MPEG-1/2/4, VP8)； 1080P video encoding, support H.264, VP8 format； Video post processor: de-interlacing, denoising, edge/detail/color optimization
Upgrading	
System Upgrade	Local USB upgrade

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Ordering Guide

model	Model code: InBOX710-<WMNN>-<STD/PLAT/L>-<A>-<S>			
	Region (Operator)	<WMNN>: Cellular Networks	<STD/PLAT/L>: OS	<S>:Serial port type
InPAD3101-FQ58-STD	EMEA South Korea Thailand India	LTE-FDD B1/B3/B7/B8/B20/B28A WCDMA B1/B8 GSM/EDGE B3/B8	STD: Android7.1	-
InPAD3101-FQ39-STD	North America	LTE-FDD B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66 2×CA 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: Android7.1	-
InPAD3101-EN00-STD	-	-	STD: Android7.1	-

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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