



# InHand Networks

7" All-in-One Android Screen

## InPAD070S Series

Industrial Embedded Computer



InPAD070S is a new generation of 4G smart terminal launched by InHand for smart business. It is equipped with the RK3288 processor, and can provide uninterrupted Internet access via 3G/4G, Wi-Fi, and multiple wired connection methods. It supports real-time update of data to the cloud management platform, where remote monitoring and management can be achieved. It can also provide an improved hardware and software configuration with high performance, low power consumption and better stability, thus enabling a smoother data transmission

Finally, wide temperature adaptation characteristics, IP65 ... all these features are specially designed for industrial application

InPAD070S is especially suitable for large-scale machine networking and equipment operation management, such as :

- Vending machine
- Self-service power exchange cabinet
- Self-service checkout terminal
- Unmanned supermarket
- Intelligent garbage sorting terminal

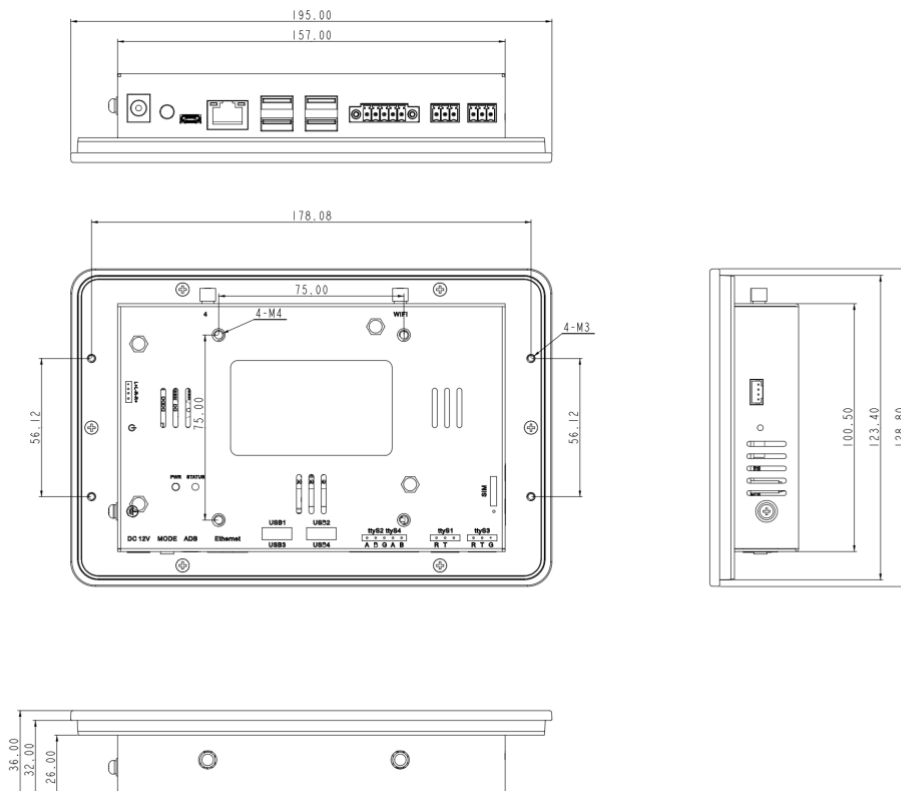
### Application Case 1



## Features and Advantages

- + Support 4G full Netcom network
- + 7-inch high-brightness capacitive touch display
- + RK3288 powerful processing capability
- + Reliable and uninterrupted network communication
- + Extensive Interfaces
- + Fully industrialized design, for harsh environment
- + IP65 protection class
- + Abundant Open API interfaces
- **Uninterrupted Internet access at anywhere**  
InPAD070S supports 3G/4G, Wi-Fi, and wired network access to achieve continuous and reliable communication for business in different scenarios, such as downtown, office and park, where 3G/4G has already been widely covered, devices interconnection can be ensured.
- **Device management platform, check device status anytime, anywhere**  
With InHand's device management platform, you can centrally check the basic status of the device, such as network conditions, traffic conditions, software version information, etc.
- **Powerful processor, equipped with Android 7.1 operating system**  
The RK3288 quad-core processor is used to meet the need of smooth running of various applications. The industry's mainstream Android 7.1 operating system makes your APP more convenient to be adapted.
- **Friendly structure design, easy to install all kinds of self-service machines**  
The friendly structure design of InPAD070S allows you to easily install it on various self-service machines. It can be installed externally, internally, or retrofitted, as well as horizontally or vertically.

## Product Size (mm)



# Product Specifications

InPAD070S Hardware Specifications			
<b>Project</b>	InPAD070S		
<b>Hardware</b>			
<b>CPU</b>	RK3288 quad-core, Cortex-A17 processor, main frequency 1.6GHz		
<b>RAM</b>	2GB RAM		
<b>FLASH</b>	8GB eMMC		
<b>Display</b>	Size: 7 inch display Resolution: 1024x600 Brightness: 450cd/m <sup>2</sup> (typ.) Contrast: 800:1 Viewing angle: full viewing angle		
<b>Touch Screen</b>	Capacitive touch screen		
<b>Interface</b>			
<b>SIM Card Slot</b>	SIM card slot *1, standard SIM card size		
<b>3G/4G Antenna interface</b>	SMA interface *1	<b>WiFi Antenna Interface</b>	RP-SMA interface *1
<b>232 Serial Port</b>	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]		
<b>485 Serial Port</b>	RS485 serial port *2, one 5pin industrial terminal, pitch 3.5mm, with flange [respectively ttyS2, ttyS4]		
<b>USB</b>	USB2.0*4, support various USB peripherals		
<b>ADB</b>	ADB*1, can be used for debugging		
<b>Audio Port</b>	SPK*2: 2-channel 8-ohm 5W speakers can be connected externally, socket specification: 2.0mm 4Pin		
<b>Network Port</b>	10/100Mbps *1, WAN/LAN		
<b>Button</b>	Power button *1: long press to restart, short press to pop up the restart interface		
<b>Indicator Light</b>			
<b>Power Indicator</b>	Power supply indicator, always on after power on		
<b>Operating Status Indicator</b>	Status indicator, blinking during normal operation		
<b>Mechanical Properties</b>			
<b>Protection Class</b>	IP65 (at the front screen) *		
<b>Shell</b>	Metall		
<b>Cooling Method</b>	Fanless cooling		
<b>Dimensions (mm)</b>	195.0*128.8*36.0		
<b>Power Supply</b>			
<b>Power Input</b>	Power input: DC-input, 12V, the power interface is a circular interface Power-on auto-start: the machine starts automatically when there is an incoming call		
<b>Ambient Temperature and Humidity</b>			
<b>Storage Temperature</b>	-40 ~ 85°C	<b>Environment Humidity</b>	5 ~ 95% (non-condensing)
<b>Operating Temperature</b>	-10 ~ 60°C		
<b>Other</b>			
<b>Watchdog</b>	Supports	<b>Power</b>	The whole machine is less than 10W
<b>Real Time Clock</b>	Built-in Real Time Clock (RTC)		
<b>EMC index</b>			
<b>Static electricity</b>	level2		
<b>Surge</b>	level2		
<b>EFT</b>	level2		

InPAD070S Software and Network Specifications	
<b>Project</b>	InPAD070S
<b>Software</b>	
<b>OS</b>	Android 7.1
<b>Application</b>	Compatible with rich application software of Android system Network layer multi-link protection mechanism Support remote upgrade, silent installation and other APIs
<b>Network Features</b>	
<b>4G network</b>	4G full Netcom
<b>Network Port</b>	10/100Mbps
<b>Wi-Fi</b>	WiFi2.4G, 802.11b/g/n
<b>Bluetooth</b>	Support Bluetooth 4.2
<b>Graphics Processing</b>	
	Support 4K 10bits H265/H264 video decoding
<b>Multimedia</b>	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
<b>Upgrade Function</b>	
<b>Upgrade Operation</b>	Local USB upgrade, platform remote upgrade (optional)

## Ordering Guide

Model	Model code : InPAD070S-<WMNN>-<STD/PLAT>-<NA >		
	<WMNN> : Cellular Type & Module	<STD/PLAT> : Version	<NA> : Serial Port
InPAD070S-FQ58-PLAT	Europe & APAC: (4G) LTE-FDD Band 1/3/7/8/20/28A WCDMA Band 1/8 GSM/EDGE Band 3/8	PLAT: Supports InVending SaaS	
InPAD070S-FQ58-STD	Europe & APAC: (4G) LTE-FDD Band 1/3/7/8/20/28A WCDMA Band 1/8 GSM/EDGE Band 3/8	STD: Android 7.1	
InPAD070S-FQ39-PLAT	North America: (4G) 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	PLAT: Supports InVending SaaS	
InPAD070S-FQ39-STD	North America: (4G) 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: Android 7.1	

## 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.

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