

InHand Networks

InPad070

7" All-in-One Android Industrial Computer



Product Description

Android Operating System combining ARM processor architecture, a brand new solution is now made available to device manufacturers insisting on video and image processing quality. By integrating Android OS with Freescale Cortex-A9 processor i.MX6S, the InPad070 7" All-in-One Industrial Computer brings to manufacturers, especially advertisement & media player manufacturers who have been relying on X86 based computing platforms a solution of lower power consumption and less heating. With OpenGL ES2.0 and OpenVG™1.1 hardware accelerators, and full HD 1080P video coding engine, the InPad070 enables media playback devices to deliver smooth and lively video experiences.

InPad070 has rich ports to connect a wide range of peripherals, including multiple serial ports, USB ports, and ports to connect scanner, printer, ID or traffic card reader, POS device, infrared touchscreen, video camera, mouse, LED screen and etc. With 3G/4G cellular network support, InPad070 is "always online" for media content update or remote network communication.

The product is ruggedized to withstand harsh conditions, supporting 12VDC input and wide operating temperatures. It also provides multiple APIs for reading of the hardware data to enable further development by the customers.

Features

- Freescale Cortex-A9 processor i.MX6, of high computing capability
- OpenGL ES 2.0 and OpenVG™ 1.1 hardware accelerator, supporting 2D and 3D graphics acceleration
- Full HD 1080P coding engine, enabling superior video experience
- 100M Ethernet and 3G/4G cellular network support allows easy network connection
- Android OS, with open development resources and abundant applications available
- Optimized hardware base driver enables stable and fast network connection, smooth user experience and excellent performance of peripherals
- Low power consumption, fan-less design
- Rich of ports, support connection to a wide range of peripherals

Tech Specs

InPad070 Software Specs

Item	InPad070	
Processor	CPU	Freescale i.MX6S Cortex-A9
	DRAM	On-board DDR3 1 GB
	Flash	8GB eMMC Flash
Screen	7-inch Screen	Resolution: 1280x800, MIPI DSI interface
Touchscreen	TFT	Support TFT touchscreen
Software Support	Operating System	Android 4.2.2
	Applications	Applications compatible with Android
Graphics Processing	2D/3D Accelerator	OpenVG 1.1 for 2D; OpenGL ES 2.0 for 3D
	Video Codec	H.264 HP, MPEG4 ASP, MPEG2 MP
	Image Processing	BMP, JPG, PNG, GIF
Cellular Network Support	MINI PCIe Interface	Support LTE, WCDMA(HSPA+), CDMA2000 With external antenna
Security	VPN Support	PPTP, IPSEC VPN
Hardware Monitoring	Watchdog	Support
Timed On/Off	Support	Support timed switching on/off
USB OTG Interface	Support	Support USB infrared touchscreen
		Support USB video camera
		Support USB mouse
Power Supply	Input	DC-input, 9~26VDC, 3-pin white terminal power interface

	Auto-start on Power Supply	Auto start when power supply is connected, can enable/disable
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InPad070 Hardware Specs

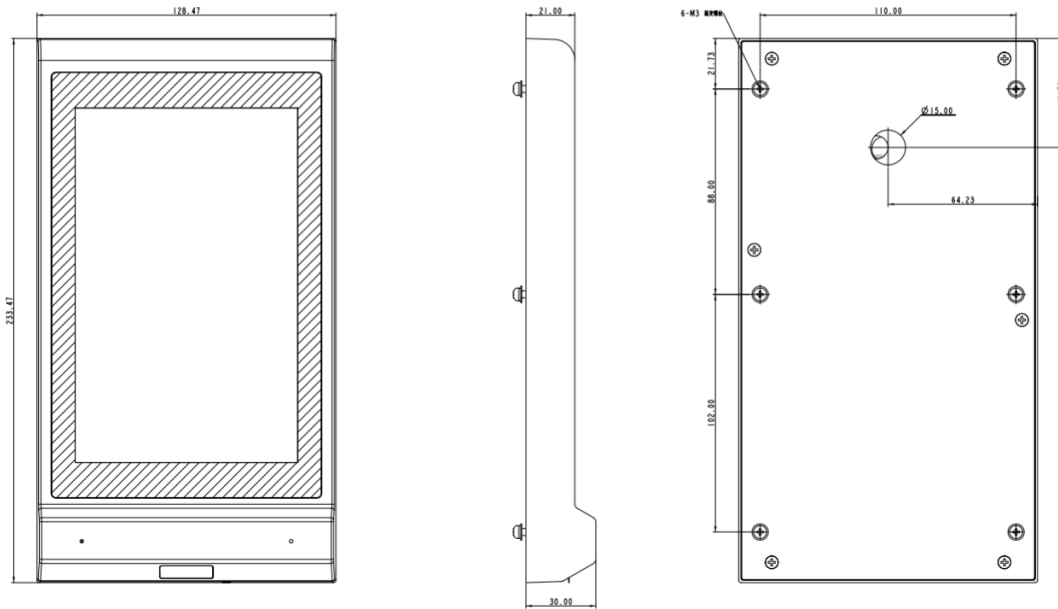
Item		InPad070
Interface	Serial Port	4 x RS232 serial ports, 232 power level, including two 3-pinwhite sockets, and two 5-pin white sockets (Added 5V positive and negative outputs.)
	USB Port	1 x OTG interface
	SIM Card Slot	1.8V/3V, flip card slot
	Power Interface	DC-input,9~26VDC, 3-pin white power interface
	Button	2 volume buttons, 1 Mode button, and 1 Power button on the panel
	Antenna Interface	3.5G/3G: SMA x 1 Wi-Fi: embedded piece-type PCB antenna
Ambient Environment	Ambient Humidity	5 ~ 95% (Non-condensing)
	Storage Temperatures	-40 ~ 85°C
	Operating Temperatures	-10~ 50°C
Indicators	Power Indicator	Indicator of power supply
	Status Indicator	Indicator of operation status. Flash indicates device is operating normally.
Warranty	1 year	

Serial Port Definitions

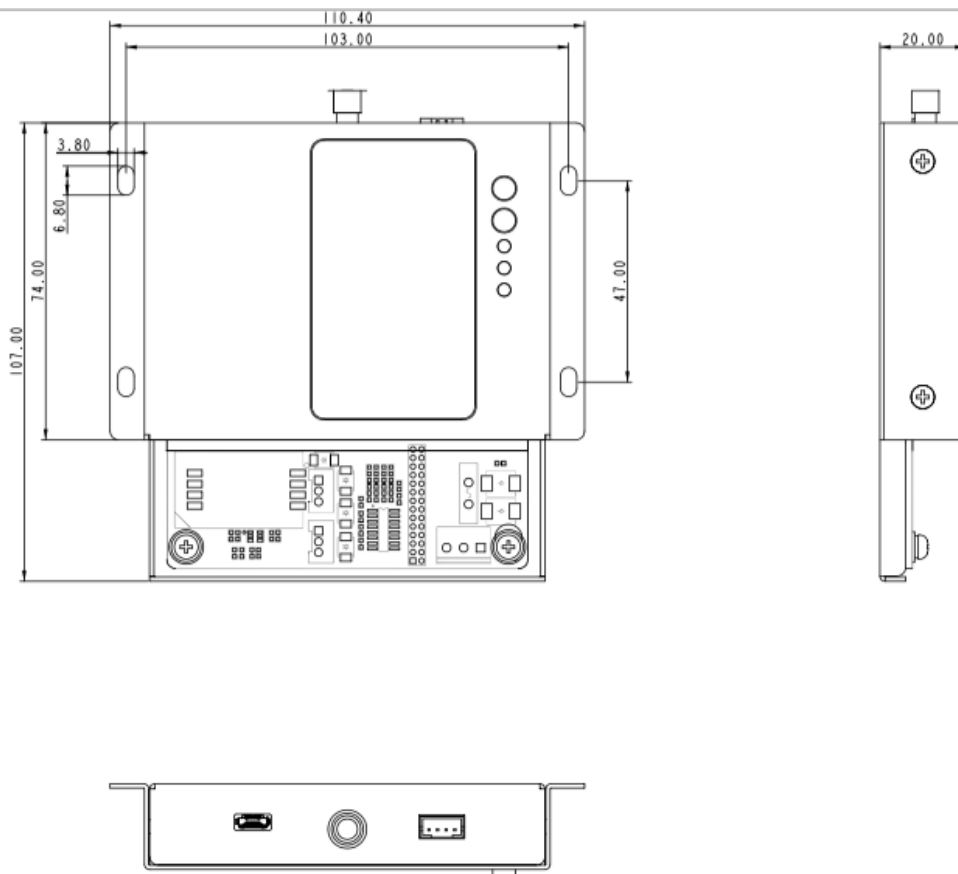
Item	InPad070 Serial Ports
From left to right, viewing from the front of serial ports-	
UT2 UT3	RX TX GND
UT4 UT5	RX TX GND V- V+
*RX is input, TX is output	
*V- V+ output is 5V/1A (Total)	
UT2: ttyO2; UT4: ttyO4	
UT3: ttyO3; UT5: ttyO5	

Dimensions (mm)

Outside the door of vending machine:



Inside the door of vending machine:



Ordering Information

Model	InPad070	
Model No.	InPad070-<WMNN>-<XXXX>	
WMNN (cellular type)	VZ16: (For China) EVDO 800/1900MHz CDMA 1x 800/1900MHz PH09: (For China, Europe) UMTS(HSPA+) Band1/8 (900/2100MHz)	3G
	DL00: (For China) LTE-FDD Band 1/3 LTE-TDD Band 38/39/40/41 TD-SCDMA Band 34/39 UMTS(DC-HSPA+) Band 1 EVDO 800MHz CDMA-1x 800MHz EDGE/GPRS/GSM 850/900/1800/1900MHz TH09: (For China) LTE-FDD Band 1/3/8 LTE-TDD Band 38/39/40/41 UMTS(DC-HSPA+) 1/5/8/9 EDGE/GPRS/GSM 900/1800MHz FH09: (For Europe, Asia Pacific) LTE-FDD Band 1/2/3/4/5/7/8/20 UMTS(DC-HSPA+) Band1/2/5/8 EDGE/GPRS/GSM 850/900/1800/1900MHz	4G
XXXX	PLAT: support InHand InVending Cloud platform STD: standard Android version	
Part Number Description	InPad070-PH09-STD: support WCDMA, wide operating temp, standard Android version InPad070-VZ16-STD: support EVDO, wide operating temp, standard Android version InPad070-DL00-STD: support 2G/3G/4G networks, wide operating temp, standard Android version InPad070-TH09-STD: support 4G, wide operating temp, standard Android version InPad070-FH09-STD: support 4G, wide operating temp, standard Android version InPad070-PH09-PLAT: support WCDMA, wide operating temp, InVending Cloud platform InPad070-VZ16-PLAT: support EVDO, wide operating temp, InVending Cloud platform InPad070-DL00-PLAT: support 2G/3G/4G, wide operating temp, InVending Cloud platform InPad070-TH09-PLAT: support 4G, wide operating temp, and InVending Cloud platform InPad070-FH09-PLAT: support 4G, wide operating temp, and InVending Cloud platform	

InHand Networks

InHand Networks provides reliable, secured and intelligent M2M solution for electric power, industrial automation, commercial and medical devices. Recognized by world class customers and partners. Proven by a large install base. Expanding with intensive investments in research and development. Enduring for long-term support.

InHand Networks is Rockwell Automation Encompass Product Partner in Asia-Pacific and Schneider Electric CAPP Technology Partner.

InHand Networks – A Global Leader in Industrial IoT



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