

InHand Networks

InBox310 Embedded 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.MX6, the InBox310 Embedded Android 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 InBox310 enables media playback devices to deliver smooth and lively video experiences.

With 1000M Ethernet and 3G/4G cellular network support, the InBox310 is “always online” for media content update or remote network communication. It has rich peripheral ports including multiple serial ports, USB ports and HDMI port to connect a wide range of peripherals, from scanner, printer, ID or traffic card reader, POS device, to infrared touchscreen, video camera, mouse, and LED screen, etc.

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

Features

- Freescale Cortex-A9 processor i.MX6, of high computing capability
- OpenGL ES2.0 and OpenVG™1.1 hardware accelerators, supporting 2D and 3D graphics acceleration
- Full HD 1080P coding engine, enabling superior video experience
- 1000M 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

InBox310 Software Specs

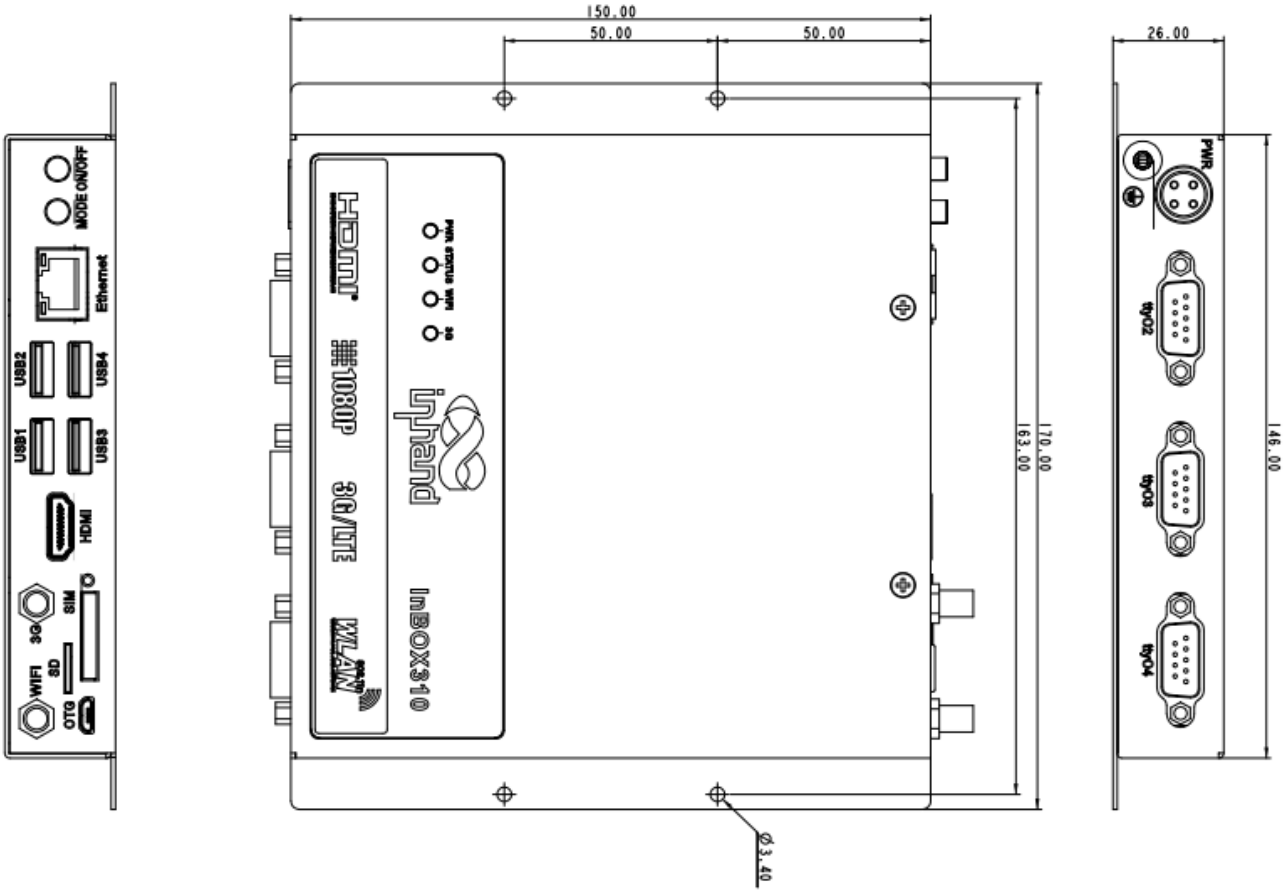
Item	InBox310	
Processor	CPU	Freescale i.MX6 Cortex-A9
	DRAM	On-board DDR3 1 GB
	Flash	8GB eMMC Flash
Software Support	Operating System	Android 4.2.2
	Applications	Applications compatible with Android OS
		Support BS architecture media publishing system
Graphics Processing	2D/3D Accelerator	OpenVG 1.1 for 2D; OpenGL ES 2.0 for 3D
	Video Coding	H.264 HP, MPEG4 ASP, MPEG2 MP
	Image Processing	BMP, JPG, PNG, GIF
	HDMI	1 x HDMI, support 1920x1080, 1366x768, 1280x720, 1024x768
Cellular Network Support	MINI PCIe Interface	Support LTE, WCDMA(HSPA+), CDMA2000 With external antenna
Security	VPN Support	PPTP, IPSEC VPN
Wi-Fi	Support	802.11b/g/n, support Client/AP modes
Hardware Monitoring	Watchdog	Support
Timed On/Off	Support	Support timed switching on/off
USB Devices	Support	Support USB infrared touchscreen
		Support USB video camera
		Support USB mouse
Power Supply	Input	DC-input, 12 VDC, 4-pin circular connector with auto-lock function

	Power Reset	Power on/off button
	Auto-start on Power Supply	Auto start when power supply is connected, enable/disable

InBox310 Hardware Specs

Item	InBox310	
Interface and Housing	Ethernet Interface	1*10/1000Mbps fast Ethernet interface, LAN/WAN
	Serial Port	3*RS232 serial ports, DB9 male connector
	USB Port	4*USB2.0 Host, each provides standard 500mA current, 1*OTG mode
	SIM Slot	1.8V/3V, drawer tray x 1
	Power Interface	DC-input,12VDC, 4-pin circular connector with auto-lock function
	Button	1*Power button, 1*Mode button
	SD Card	1*SD slot
	Antenna Interface	3.5G/3G: SMA x 1; Wi-Fi: RP-SMA x 1
	Wi-Fi	Optional, 802.11b/g/n
	MINI PCIe Interface	3G/4Gcellular network
	HDMI	1*HDMI, support 1920x1080, 1366x768, 1280x720, 1024x768
	Dimensions(mm)	17cm * 15cm * 2.6cm
	Housing	Metal structure
	Weight	671g
Power Supply	Power Input	DC12V
	Power Interface	DC-input, 4-pin circular connector with auto-lock function
Environment	Ambient Humidity	5 ~ 95% (non-condensing)
	Storage Temperature	-40 ~ 85°C
	Operating Temperature	-20~ 70°C
Indicators	Power Indicator	Indicator of power supply
	Status Indicator	Indicator of operation status, flash indicates operating normally
	Wi-Fi Indicator	Wi-Fi indicator
	Wireless Network Indicator	Wireless network indicator
EMC Index	Static	EN61000-4-2,level 3 (contact 6KV, air discharge 8KV)
Warranty	1 year	

Dimensions (mm)



Ordering Information

Model	InBOX310	
Part Number	InBox310-<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
	EN00: No cellular module (*Please consult sales for availability)	
XXXX	PLAT: support InHand InVending Cloud platform STD: standard Android version	
Part Number Description	InBox310-PH09-STD: support WCDMA, wide operating temp, standard Android version InBox310-VZ16-STD: support EVDO, wide operating temp, standard Android version InBox310-DL00-STD: support 2G/3G/4G networks, wide operating temp, standard Android version InBox310-TH09-STD: support 4G, wide operating temp, standard Android version InBox310-FH09-STD: support 4G, wide operating temp, standard Android version InBox310-PH09-PLAT: support 3G, wide operating temp, InHand InVending Cloud platform InBox310-VZ16-PLAT: support EVDO, wide operating temp, InHand InVending Cloud platform InBox310-DL00-PLAT: support 2G/3G/4G networks, wide operating temp, InHand InVending Cloud platform InBox310-TH09-PLAT: support 4G, wide operating temp, InHand InVending Cloud platform InBox310-FH09-PLAT: support 4G, wide operating temp, InHand 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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