

IBOX66 Embedded Industrial Computer



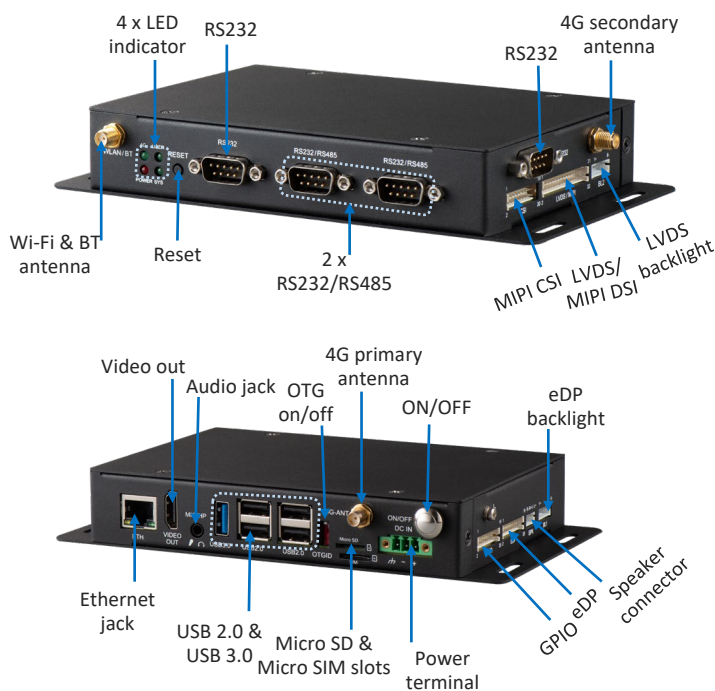
Product Brief

Vantron IBOX66 adopts a quad-core ARM Cortex-A55 processor running at a maximum frequency of 1.8GHz, equipped with scalable 4GB up to 8GB memory and 32GB expandable storage with a Micro SD card slot, delivering lightweight computing and storage capacity to handle concurrent multimedia decoding and multi-peripheral tasks smoothly.

The IBOX66 integrates comprehensive multimedia interfaces including 4K HDMI, eDP, multiplexed MIPI DSI compatible with LVDS, dedicated audio jack, speaker connector and MIPI CSI camera port, supporting full audio and video capture and display for various visual terminal scenarios. In terms of communication, the device carries a gigabit RJ45 Ethernet port, Wi-Fi 802.11 a/b/g/n/ac paired with Bluetooth 5.0, and reserves a Mini-PCIe slot for optional 4G LTE module, realizing seamless wired and wireless network access. Abundant industrial I/O resources such as multi-channel RS232/RS485 serial ports, USB 2.0/3.0 interfaces, Micro SIM slot and 3.3V GPIO are provided.

A wide choice of peripherals can be connected for extended use, including barcode scanners, cameras, barcode printers and keyboard plates, allowing flexible application in intelligent retailing, new retailing, financial self-service terminals, and other scenarios.

Exterior and Features



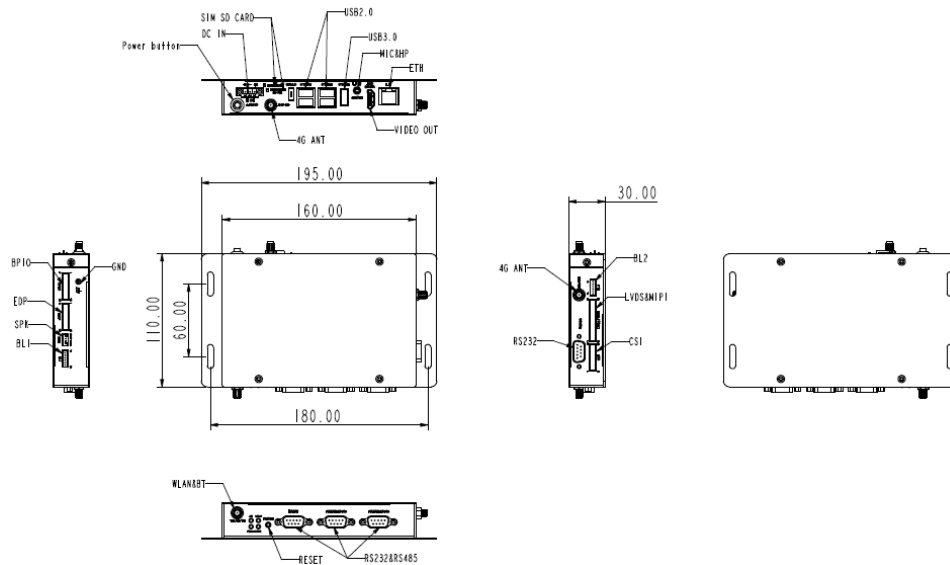
IBOX66

-  Quad-core ARM Cortex-A55 processor
-  4GB memory and 32GB storage, both scalable
-  Android 11 operating system, Linux optional
-  eDP/LVDS/MIPI interface for display
-  5 x USB, 2 x RS232, 2 x RS232/485
-  Wi-Fi/BT/ETH/optional 4G for communication
-  Interfacing with Bluesphere MDM for remote control

IBOX66 Embedded Industrial Computer Datasheet

IBOX66		
System	CPU	Quad-core ARM Cortex-A55 processor, 1.8GHz (Max)
	Memory	4GB (up to 8GB)
	Storage	32GB (up to 128GB) 1 x Micro SD card slot (up to 128GB)
Communication	Ethernet	1 x RJ45, 10M/100M/1000Mbps
	4G LTE (AT&T, Verizon)	Optional
	Wi-Fi & Bluetooth	Wi-Fi 802.11 a/b/g/n/ac + BT 5.0
Media	Display	1 x HDMI Type-A, 4K @60Hz 1 x 4-lane eDP, 2560 x 1600 @60Hz 1 x 8-lane MIPI DSI (including 4 lanes multiplexed to LVDS): single-channel MIPI DSI: 1920 x 1080 @60Hz, LVDS: 720P @60Hz; dual-channel MIPI DSI: 2560 x 1440 @60Hz
	Audio	1 x 3.5mm Combo audio jack
	Speaker	1 x Speaker connector
	Camera	1 x MIPI CSI, 2 x 10 x 2.0mm
I/O	Serial port	2 x RS232, DB9 Connector 2 x RS232/RS485, DB9 Connector
	USB	4 x USB 2.0 Type-A (USB OTG supported on the top right port) 1 x USB 3.0 Type-A
	SIM slot	1 x Micro SIM slot
	GPIO	8 x GPIO, 3.3V
	Watchdog	Supported
	RTC	Supported
Expansion	Mini-PCIe	1 x Mini-PCIe for connecting the 4G LTE module
System Control	Button	1 x ON/OFF button 1 x Reset button
	LED	1 x Power LED (Red) 1 x System LED (Green) 1 x 4G LED (Green) 1 x User defined (Green)
Software	OS	Android 11 (Optional: Linux)
	Device management platform	BlueSphere MDM (Android version optional)
	OTA tool	BlueSphere OTA
Power	Input	12V/24V 3A DC (±5%) 1 x 3 x 3.81mm power terminal
	Consumption	15W
Mechanical	Dimensions	160mm x 110mm x 30mm (Enclosure only) 195mm x 110mm x 30mm (With mounting bracket)
	Weight	680g
	Installation	Desktop/Wall mounting
Environment Condition	Temperature	Operating: 0°C~+60°C Storage: -40°C~+85°C
	Humidity	Operating: RH 5%~95% Storage: RH 5%~95%
	Certification	FCC ESD: ±4KV (contact) and ±8KV (air)

Mechanical Outline



Ordering Information

Ordering No.	Memory	Storage	Cellular	Wi-Fi & Bluetooth
IBOX66-L4	2GB	16GB	Yes	Yes
IBOX66-L	2GB	16GB	-	Yes
IBOX66-H4G	4GB	32GB	Yes	Yes
IBOX66-H4	4GB	32GB	Yes	Yes
IBOX66	4GB	32GB	-	Yes

* More variants are available, please contact the sales executive for details.

Packing List	
IBOX66 Embedded industrial computer	1
Wi-Fi & Bluetooth antenna	1

Optional Accessories	
12V DC power adapter	1
Power cord	1
DC Power connector	1
4G LTE antenna	2

Since its establishment in 2002 by two Silicon Valley entrepreneurs, Vantron Technology has been at the forefront of the connected IoT devices and IoT platform solutions. Today, Vantron boasts a global customer base that includes several Fortune 500 companies. Its product lines cover edge intelligent hardware, IoT communication devices, industrial displays and BlueSphere cloud device management platform.

With over 20 years of experience in R&D of embedded edge intelligent hardware, Vantron has provided users with diverse embedded solutions featuring ARM and X86 architectures. Its offerings range from Linux to Windows, from embedded to desktop level, and from gateway to server. In addition, it provides users with system clipping, driver transplantation and other related services.