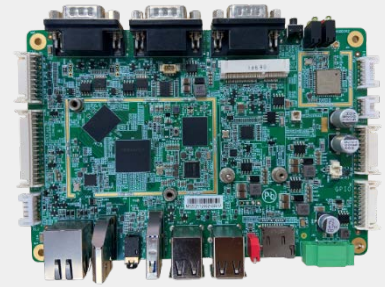


VT-SBC-RK66 Single Board Computer



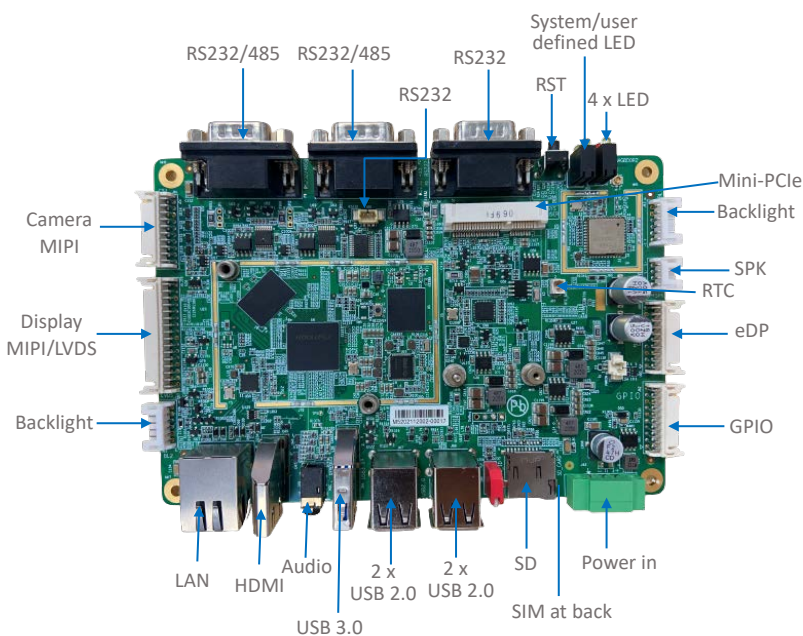
Product Brief Introduction

VT-SBC-RK66 multi-functional single board computer runs the latest Android 11 operating system. The high-performance board is GMS certified to enable customers to have unimpeded access to Google mobile services.

The board is powered by RK3566, a cost-effective multi-core processor developed by Rockchip. With 4GB memory and 32GB eMMC storage, it features quick access to data and ultra large capacity. As such, it is capable of dealing with huge volume of data in a timely manner.

With plenty of peripheral interfaces, a wide choice of peripherals can be connected for extended applications, including barcode scanners, cameras, barcode printers and keyboard plates. The SBC also supports ultra-high-definition video outputs as it offers a high-performance video engine coupled with HEVC hardware decoding and 1080p/2K video resolution. Moreover, display interfaces of different specifications allow flexible application of the device in intelligent retailing, new retailing, financial self-service terminals, and other scenarios.

Exterior and Features



VT-SBC-RK66



RK3566, quad-core, ARM Cortex-A55



4GB Memory and 32GB Storage



Android 11, GMS certified



eDP/LVDS/MIPI interface for display



5 x USB, 4 x COM port

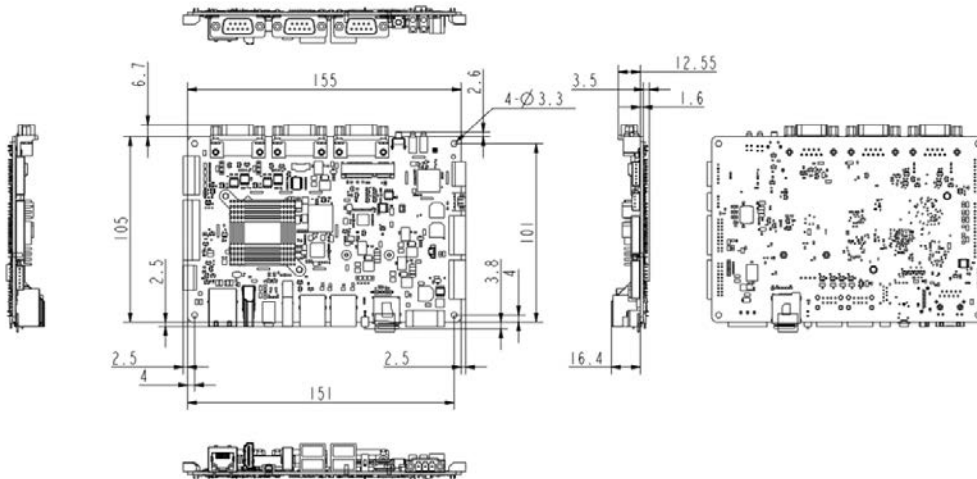


Wi-Fi/BT/4G/ETH for communication

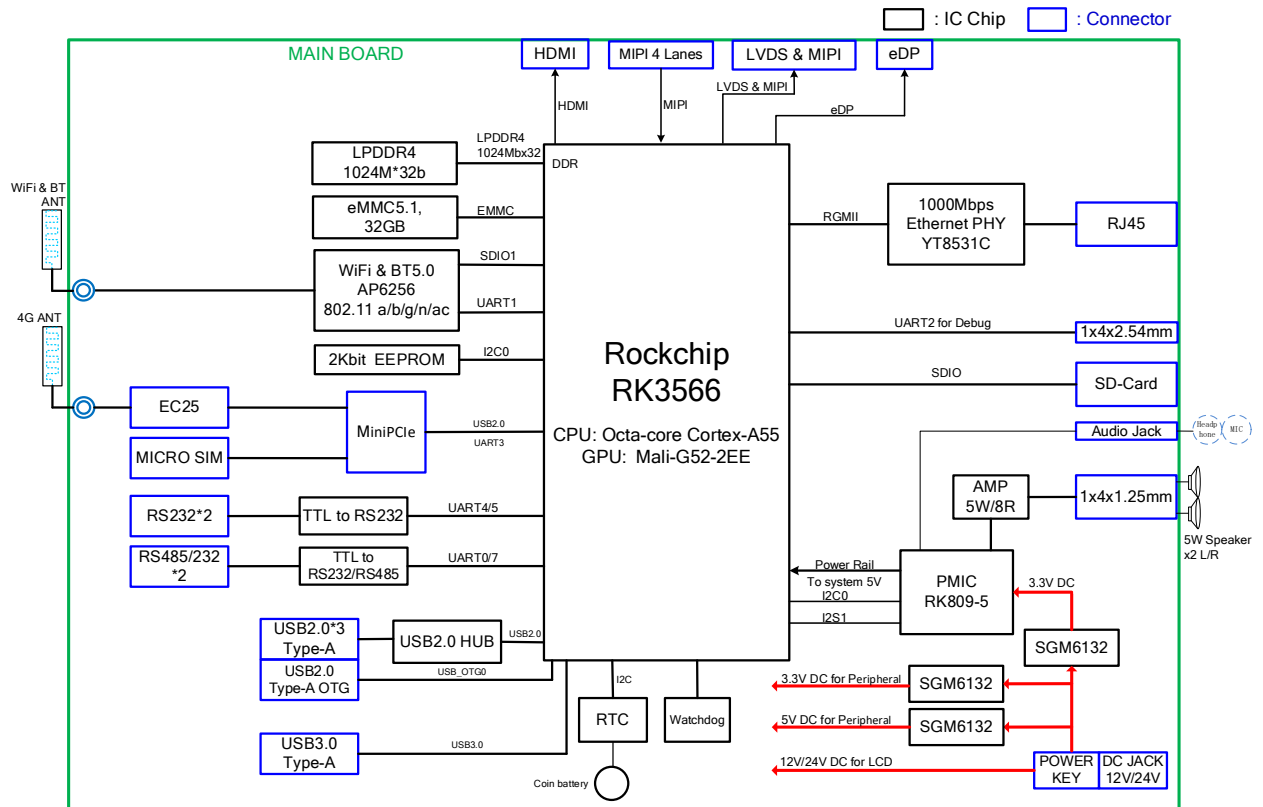
VT-SBC-RK66 Single Board Computer Datasheet

VT-SBC-RK66			
System	CPU	Rockchip RK3566, Quad core, ARM Cortex-A55, 1.8GHz (Max)	
	Memory	4GB	
	Storage	32GB (up to 128GB) 1 x Micro SD slot (up to 128GB)	
Communication	Ethernet	1 x RJ45, 10M/100M/1000Mbps	
	Wi-Fi & Bluetooth	Wi-Fi 802.11 a/b/g/n/ac + BT 5.0	
	4G/LTE	Supported (expansion by mini PCIe)	
Media	Display	1 x HDMI, Type-A, up to 4K x2 K@60Hz 1 x 4-lane eDP, 2K@60Hz 1 x 8-lane MIPI DSI connector (including 4 lanes multiplexed with LVDS): single-channel MIPI DSI: 1080P@60Hz, LVDS: 720P @60Hz; dual-channel MIPI DSI: 2K@60Hz	
	Audio	1 x 3.5mm combo audio jack	
	Speaker	1 x Speaker connector	
	Camera	1 x MIPI CSI-2, 2 x 10 x 2.0mm	
	I/Os	Serial port	1 x RS232, DB9 2 x RS232/485, DB9
I/Os	USB	4 x USB 2.0 Type-A (OTG supported) 1 x USB 3.0	
	SIM slot	1 x SIM card slot	
	GPIO	8 x GPIO, 3.3V	
	RTC	Supported	
	Watchdog	Supported	
	Expansion	Mini-PCIe	1 x Mini-PCIe for 4G/LTE module
System Control	Button	1 x Reset button	
	LED	1 x 4G LED 1 x Power LED	1 x User defined 1 x System LED
Software	OS	Android 11, GMS certified (Optional: Linux OS)	
	Device management platform	Vantron BlueSphere	
Power	Input	12V/24V 3A DC (±5%), 1 x 3 x 3.81mm terminal	
Mechanical	Dimensions	155mm x 105mm x 21.5mm	
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)

Product Outlines



Block Diagram



Company Profile

Since 2002 established by two Silicon Valley entrepreneurs, Vantron Technology has been a pioneer in connected IoT devices and IoT platform solutions. Today, Vantron serves countless customers all over the world, some of them are Fortune 500 companies. Products lines cover edge intelligent hardware, IoT communication devices, industrial displays and BlueSphere cloud device management platform.

Vantron has 20 years of experience in R&D of embedded edge intelligent hardware like SOM board and motherboard, and provided users with various embedded solutions with ARM and X86 architecture. From Linux to Windows, from embedded to desktop level, from gateway to server. At the same time, we provide our users with system clipping, driver transplantation and other services.

Vantron IoT communication devices support multi-protocol connection of industrial equipment, edge computing of local data. Abundant wired and wireless connectivity make remote operations and maintenance possible. From electricity and transportation to smart retail, medical and warehousing, Vantron IoT communication device can be deployed anywhere in any business section. Vantron believes its IoT solution to help many companies finish their digital transformation, efficiency of manufacturing and productivities have been improved significantly.

Vantron industrial display systems, ARM and X86 series, are equipped with Rockchip, NXP, MediaTek, Intel and other high-performance processors. It supports various operating systems such as Windows, Linux, and Android. Diverse wireless communications keep your device online all the time. Multiple installation methods make it suitable for a variety of application scenarios. Features like waterproof, dustproof, shatter resistant guarantee the best performance in any environment.

Vantron BlueSphere device management platform, a software product, is playing a big role in Vantron overall IoT solution. Today, Vantron puts more focus on offering complete cost effective, leading-edge yet reliable solutions to help customers carry out their visions.