

VT-SBC-RK35M Single Board Computer

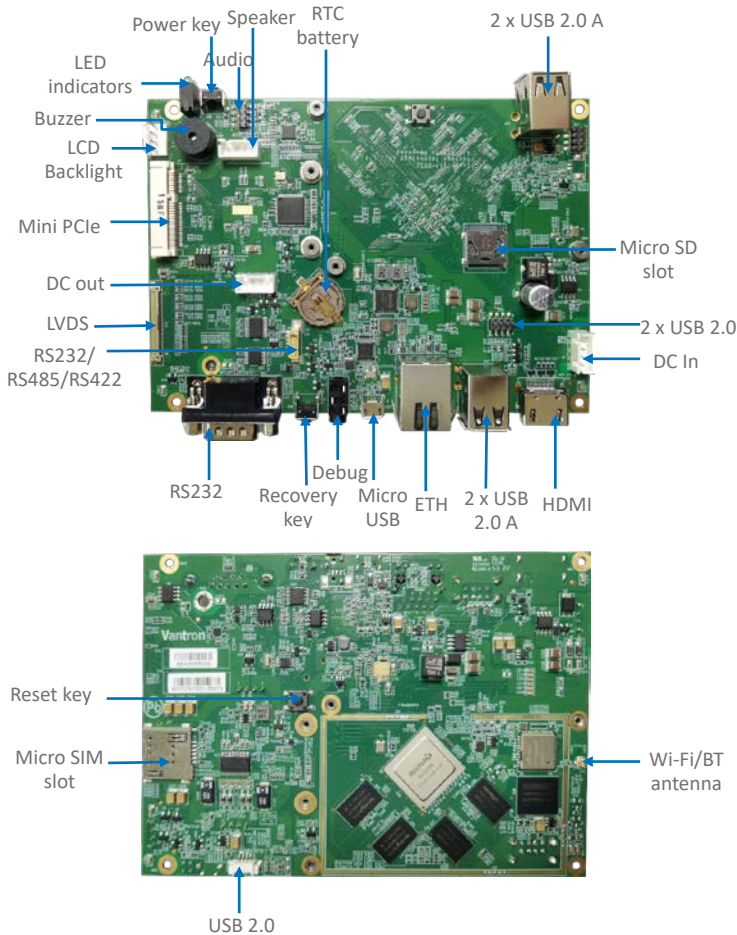


Product Brief

VT-SBC-RK35M Single Board Computer is 3.5" in size, powered by Rockchip RK3288 processor that provides optimized performance with lowest power consumption. It supports high-quality video encoding and decoding to maximize display performance. With both wired and wireless network accesses available, user data is kept safe and secure in transmission. Meanwhile, the single board computer provides a complete set of on-board interfaces and customer expansion options to meet different application scenarios including smart retail, self-service terminals, industrial automation, intelligent medical health, and digital media.

Featuring high flexibility and high performance, the single board computer could work under extreme environments with extended temperatures ranging from -20°C to +60°C, making it a reliable industrial IoT solution.

Exterior and Features

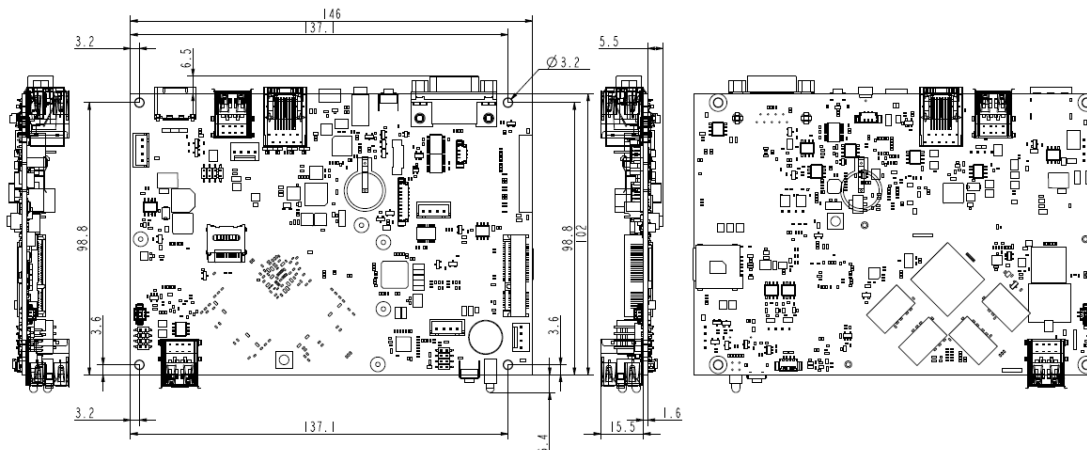


VT-SBC-RK35M	
	Rockchip RK3288W Quad-core processor
	2GB DDR3L memory
	Rich interfaces, flexible expansion
	High-definition video encoding and decoding
	Ethernet/Wi-Fi & BT/4G
	RTC supported
	USB 2.0
	Wide temperature range supported

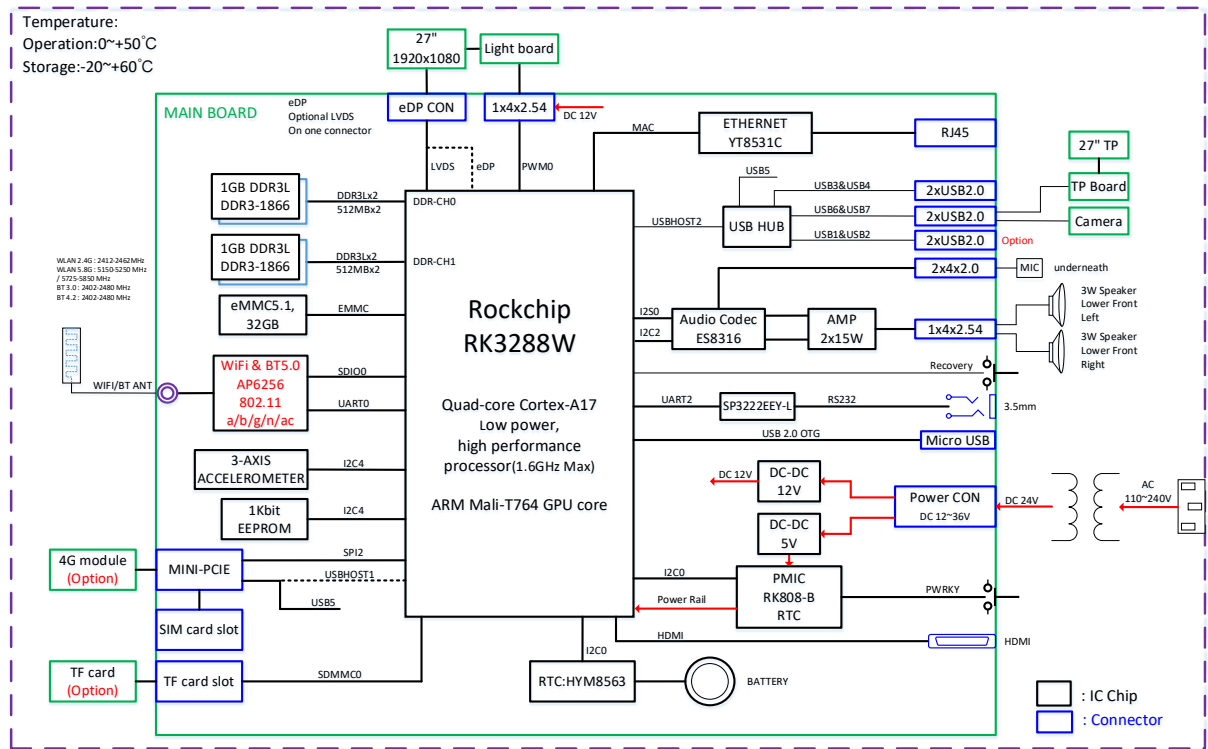
VT-SBC-RK35M Single Board Computer Datasheet

VT-SBC-RK35M		
System	CPU	Rockchip RK3288W, Quad-core ARM Cortex-A17, 1.6GHz (Max.)
	GPU	Mali-T764, up to 500MHz
	Memory	2GB DDR3L
	Storage	32GB eMMC 5.1 1 x Micro SD slot
Communication	Ethernet	1 x RJ45, 1000 Mbps
	Wi-Fi & BT	Wi-Fi 802.11 a/b/g/n/ac + BT 5.0
	4G	Optional, Expansion by the mini PCIe slot
Media	Display	1 x HDMI 2.0 Type-A 1 x 4-lane eDP/Dual LVDS
	Audio	1 x Audio connector 2 x 3W/8R Speaker connector
I/Os	Serial	1 x RS232 (DB9) 1 x RS232/RS485/RS422 1 x RS232 for debugging (3.5mm audio jack)
	USB	4 x USB 2.0 Type-A 3 x USB 2.0 Host connector 1 x Micro USB (OTG supported)
	Sensor	1 x 3-axis accelerometer
	RTC	Supported
Expansion	Mini PCIe	1 x Mini PCIe for 4G
System Control	Button	1 x Power button 1 x Recovery/Volume + button 1 x Reset button
	Indicator	2 x Status LED (user-defined)
Power	Input	9V-36V 1 x 4-pin x 2.54mm Power connector
Software	Operating system	Android, Linux
	SDK	Available
	Device management platform	BlueSphere MDM (Android version only)
	OTA tool	BlueSphere OTA
Mechanical	Dimensions	146mm x 102mm
	Cooling mode	Fanless, Heat sink
Environment Condition	Temperature	Operating: 0°C~+50°C (25°C recommended) Storage: -20°C~+60°C (25°C recommended)
	Humidity	Operating: RH 20%-80% (Non-condensing) Storage: RH 10%-90% (Non-condensing)

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. Product 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.