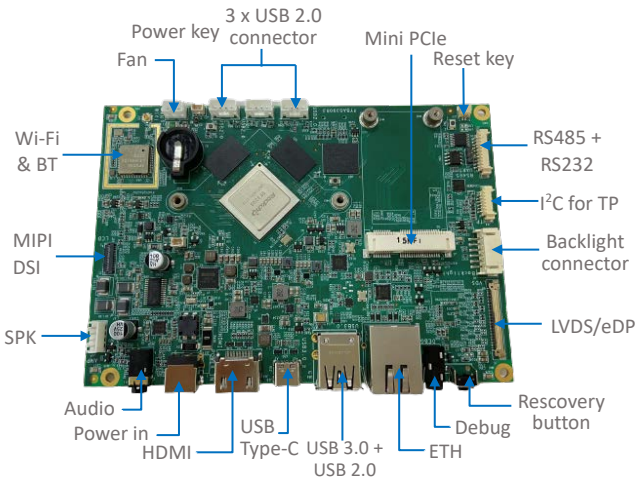
VT-SBC-3399 Single Board Computer

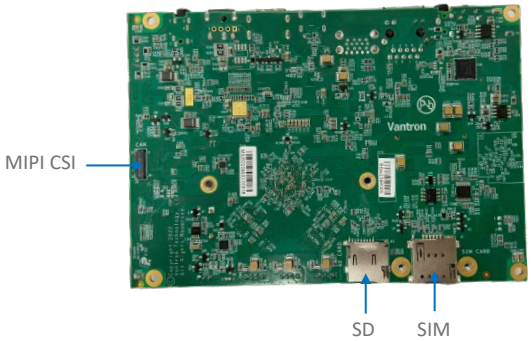
Product Brief Introduction

VT-SBC-3399 Single Board Computer is powered by Rockchip RK3399 processor that integrates dual-core Cortex-A72 and quad-core Cortex-A53 to provide optimized performance at lower 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 board 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, VT-SBC-3399 is able to work under extreme environments, making it a reliable industrial IoT solution.

Exterior and Features



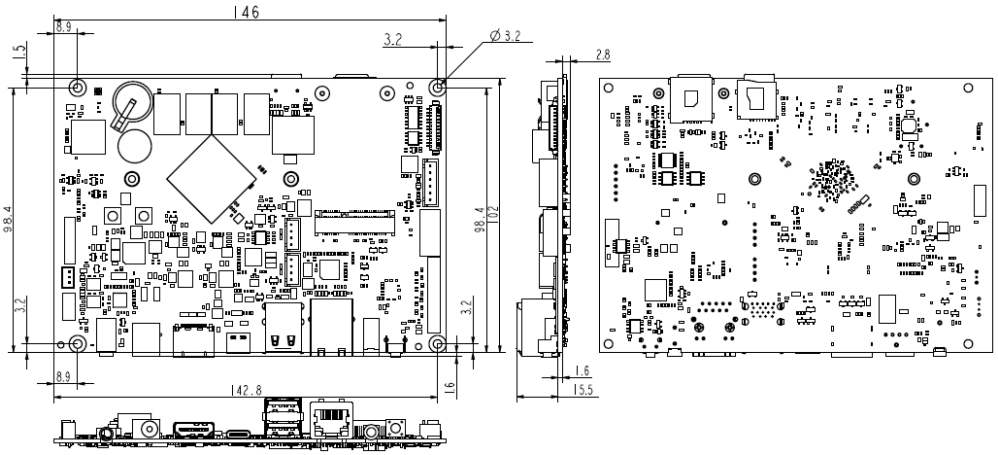


VT-SBC-3399
Rockchip RK3399 processor, dual-core Cortex-A72 and quad-core Cortex-A53
4GB LPDDR4 & 32GB eMMC
Rich interfaces, flexible expansion
Full HD video encoding and decoding
Ethernet / Wi-Fi & BT / 4G LTE
RTC supported
Multiple USB 2.0 & USB 3.0
Industry temperature grade

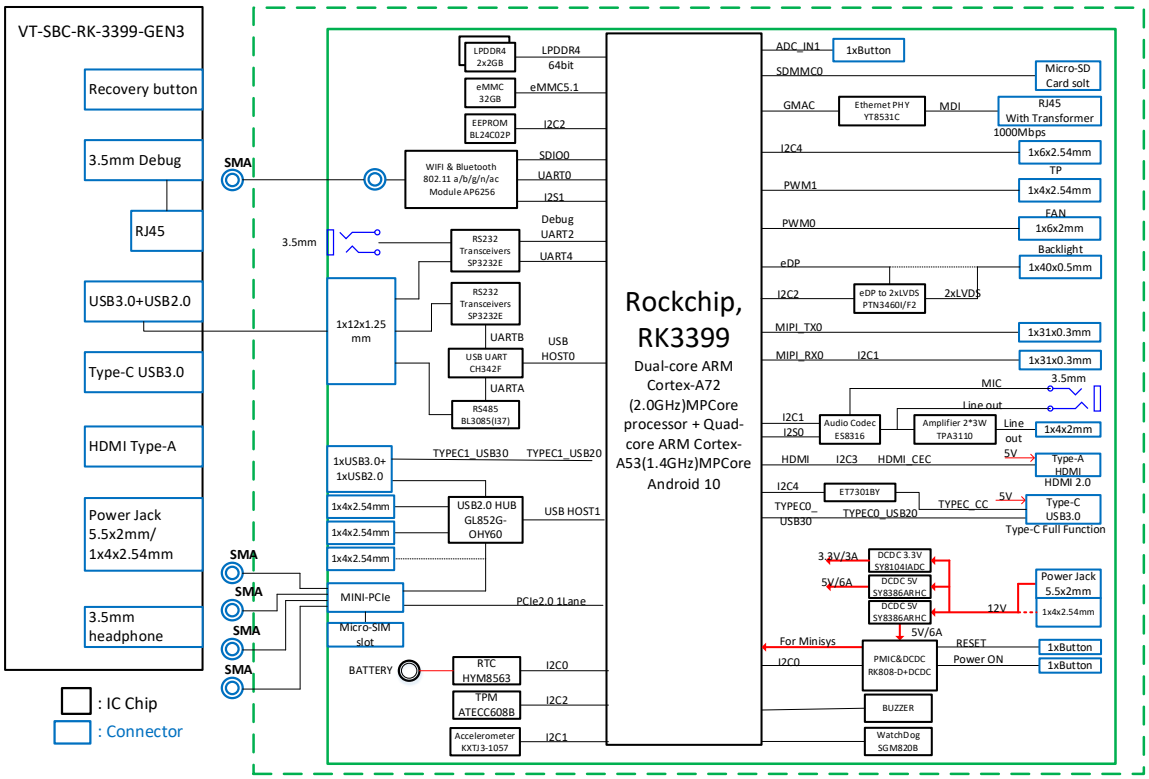
VT-SBC-3399 Single Board Computer Datasheet

VT-SBC-3399			
System	CPU	Rockchip RK3399, dual-core ARM Cortex-A72 1.8GHz and quad-core ARM Cortex-A53 1.4GHz	
	GPU	Mail-T860MP4	
	Memory	4GB LPDDR4 (Optional: 2GB)	
	Storage	32GB eMMC	1 x Micro SD slot
Communication	Ethernet	1 x RJ45, 10/100/1000 Mbps	
	Wi-Fi & BT	Wi-Fi 802.11a/b/g/n/ac + BT 5.0	
	4G LTE	Supported (Expandable by a mini PCIe slot)	
Media	Display	1 x HDMI, up to 4K @60Hz 1 x MIPI DSI, up to 1920 x 1080 @60Hz 1 x Dual LVDS, 1920 x 1080 @60Hz / 1 x 4-channel eDP, 2560 x 1600 @60Hz	
	Camera	1 x 4-Lane MIPI CSI, 5 MP, OV5640	
	Audio	1 x 3.5mm Combo audio jack	1x Speaker connector
I/Os	Serial	1 x RS485 2 X RS232	1 x RS232 for debugging
	USB	1x USB 3.0 Host, Type-A 1 x USB 2.0 Host, Type-A	3 x USB 2.0 Host connector 1 x USB 3.0 Type-C (OTG supported)
	Fan	1 x Fan connector	
	RTC	Supported	
	WDT	Supported	
Expansion	Mini PCIe	1 x Mini PCIe for 4G LTE	
System Control	Button	1 x Power button	1 x Reset button
	LED indicator	1 x Power indicator	
Power	Input	12V DC	1 x power jack
Software	Operating system	Android, Linux	
	SDK	Available	
	Device management platform	BlueSphere MDM (Android device only)	
	OTA tool	BlueSphere OTA	
Mechanical	Dimensions	146mm x 102mm	
	Cooling mode	Fanless	
Environment Condition	Temperature	Operating: 0℃~+60℃	Storage: -40℃~+85℃
	Humidity	RH 5%-95% (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. 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.