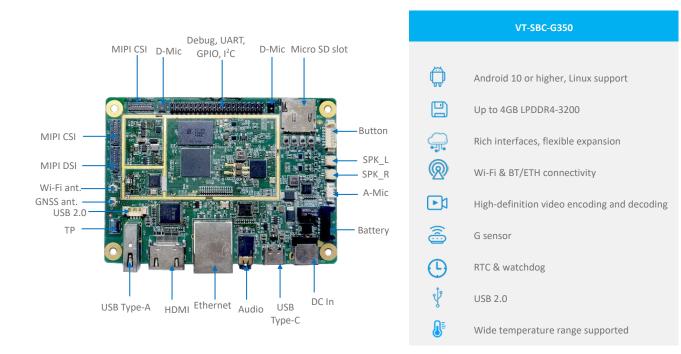
# VT-SBC-G350 Single Board Computer



### **Product Brief**

VT-SBC-G350 Single Board Computer features a thinner and smaller form factor that is easy to integrate. It is powered by MTK<sup>®</sup> MT8365 (G350) processor, which integrates a fast 2GHz quad-core ARM Cortex-53 CPU and a high-performance ARM Mali-G52 GPU to deliver powerful Edge AI processing with extremely low power consumption. The board supports up to 13MP high-definition camera, which, combined with the high-definition video encoding and decoding technology, provides outstanding visual experience. Better yet, it provides rich 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 board could work under extreme environments with extended temperatures ranging from -20°C to +60°C, making it a reliable industrial IoT solution.

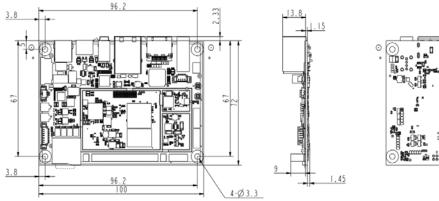


#### **Exterior and Features**

## VT-SBC-G350 Single Board Computer Datasheet

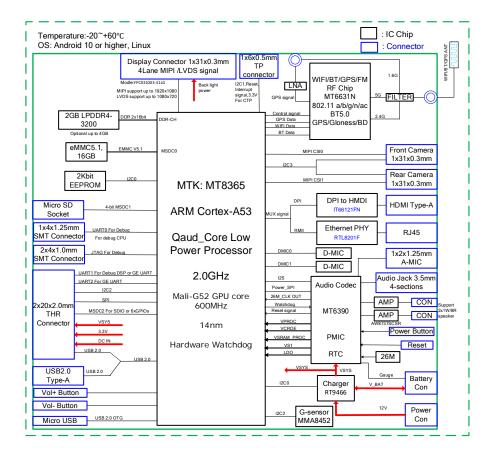
		VT-SBC-G350			
	CPU GPU	MTK MT8365 (G350), Quad-core ARM Cor Mali-G52, 3D graphic accelerator, capable			
System	Memory	pixel/s, 600MHz 2GB LPDDR4-3200, up to 4GB			
	Storage	16GB eMMC 5.1, up to 64GB 2Kb EEPROM	1 x Micro SD slot (SDIO 3.0)		
	PMIC	MT6390			
	Ethernet 1 x RJ45, 10/100Mbps, RTL8201 (Ethernet PHY), not for simul	PHY), not for simultaneous use with HDMI			
Communication	Wi-Fi & BT	Wi-Fi 802.11 a/b/g/n/ac + BT 5.0			
	GNSS	GPS + Glonass + Beidou/Galileo			
	Display	1 x 4-Lane MIPI DSI, up to 1920 x 1080	1 x HDMI (Type-A), up to 1920 x 1080 (Not for simultaneous use with RJ45)		
Media	Camera	2 x 4-Lane MIPI CSI, 13 MP, 1080P/60fps video decoder			
	Audio	1 x A-Mic to PMIC 2 x D-Mic to AP (CPU), noise reduction	1 x 3.5mm combo audio jack 2 x 1.2W Speaker connector		
I/Os	Serial	2 x UART for communication	1 x UART for debugging		
		1 x USB 2.0 Type-C (OTG supported)	1 x USB 2.0 Type-A		
	USB	1 x USB 2.0 connector			
	GPIO	4 x GPIO			
	RTC	Supported, powered by an external battery			
	Watchdog	Supported			
Expansion	l <sup>2</sup> C	1 x l <sup>2</sup> C for TP	1 x l <sup>2</sup> C for external communication		
		1 x ON/OFF button	1 x Reset button		
System Control	Button	2 x Volume button (+ & -)	1 x Button connector		
Sensor	G-sensor	3-Axis G-sensor			
Power	Input	12V DC	1 x Power jack		
	Operating system	Android 10 or higher, Linux (support by re	equest)		
Software	oftware Device management platform BlueSphere MDM (Optional)	BlueSphere MDM (Optional)			
	OTA tool	BlueSphere OTA (Optional)			
D.d. also a incl	Dimensions	100mm x 75mm			
Mechanical	Cooling mode	Fanless			
	Temperature	Operating: -20°C~+60°C Storage: -40°C~+85°C			
Environment	Humidity	5%-95% RH			
Condition	Certification	FCC (part 15 class B)	ESD (contact: ±4KV and air: ±8KV)		

### **Product Outlines**



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#### **Block Diagram**



### Ordering Information

Ordering No.	Chipset	Memory	Storage	Description
VT-SBC-G350	MT8365 (G350)	2GB LPDDR4	16GB eMMC	MIPI DSI, HDMI/RJ 45, MIPI CSI, UART, USB, I <sup>2</sup> C, GPIO, Mic, Speaker, Audio
* More variants are ava				I <sup>2</sup> C, GPIO, Mic, Speaker, Audio

Packing list	Optional accessories	
VT-SBC-G350 single board computer	1	Power adapter
Wi-Fi and BT antenna	1	Power cord

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 many Fortune Global 500 companies. Its product lines cover edge intelligent hardware, IoT communication devices, industrial displays, and BlueSphere cloud platforms.

With over 20 years of experience in R&D of intelligent edge hardware, Vantron has provided users with diverse embedded solutions featuring ARM and X86 architectures. Its offerings range from Linux, Android to Windows, from embedded to desktop level, and from gateways to servers. In addition, it provides users with system trimming, driver transplantation and more to cater to the unique needs of its users.

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