

## VT-SBC35-APL Single Board Computer

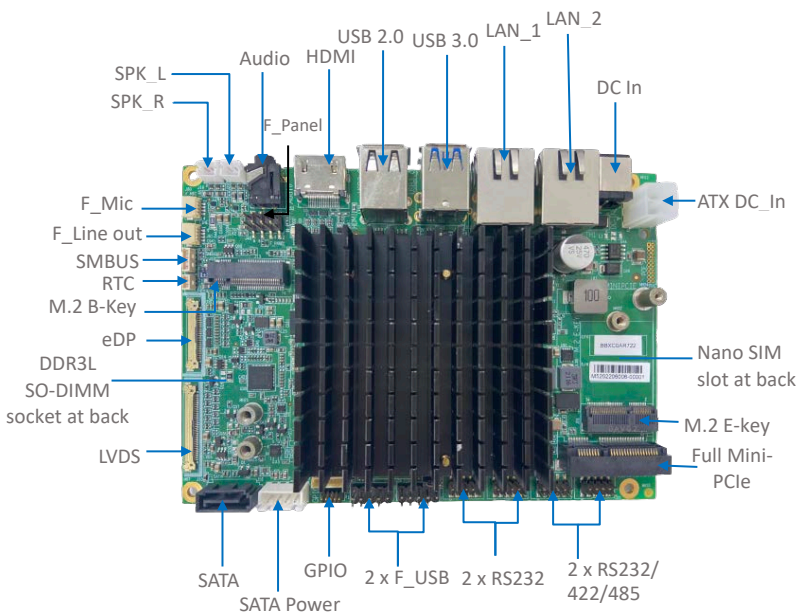


### Product Brief

VT-SBC35-APL Single Board Computer features a thinner and smaller form factor that is easy to integrate. It is powered by the high-performance Intel® Atom™ processor with large storage capacity. It supports multi-channel display outputs and high-definition video encoding and decoding technology to provide outstanding visual experience. Meanwhile customers have the choice between wired and wireless network accesses. The board 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 solution for industrial IoT applications.

### Exterior and Features

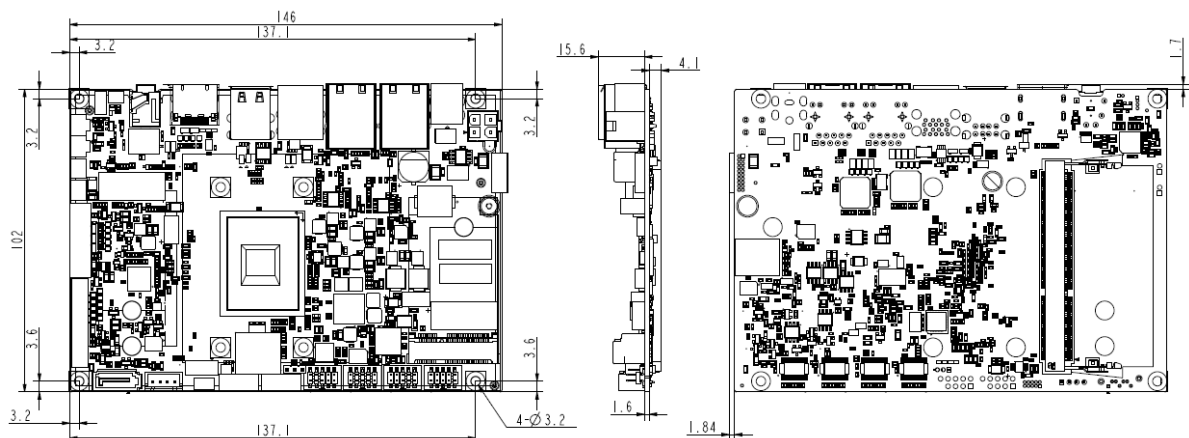


VT-SBC35-APL	
	Up to 8GB DDR3L SODIMM
	Rich interfaces, flexible expansion
	SDK for the development of self-defined apps
	High-definition video encoding and decoding
	RTC supported
	TPM module
	USB 2.0 & USB 3.0
	Wide temperature range supported

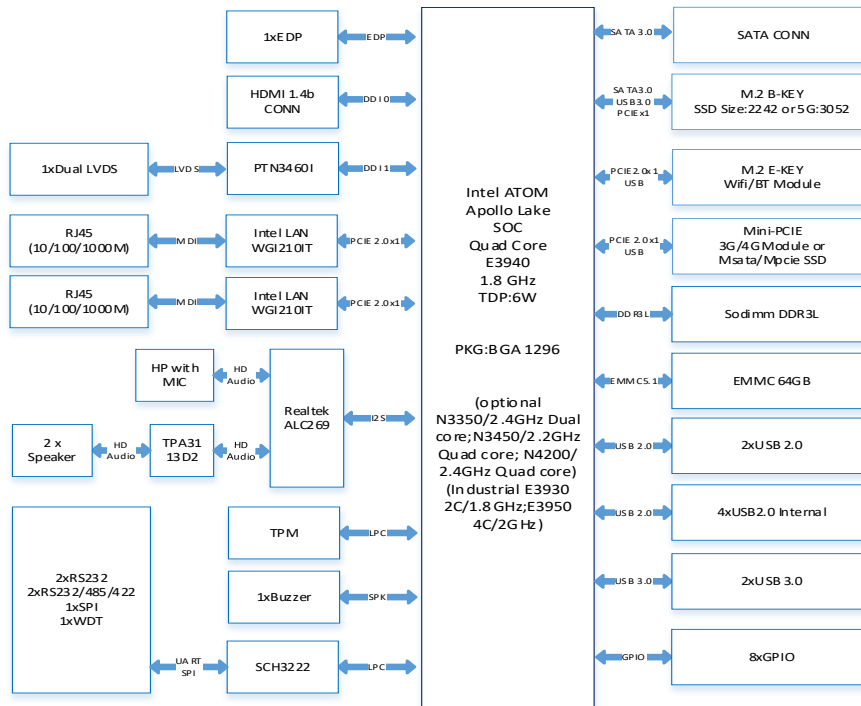
**VT-SBC35-APL Single Board Computer Datasheet**

VT-SBC35-APL		
System	CPU	Intel® ATOM™, APL-I E3940 Quad-core processor, 1.8GHz (Max)
	Memory	DDR3L SO-DIMM socket, up to 8GB
	Storage	64GB eMMC (Optional) 1 x SATA 3.0, 6Gb/s, up to 2TB Expandable by an M.2 B-key slot (2242), up to 256GB
Communication	Ethernet	2 x RJ45, 10/100/1000-Base T, Intel I210
Media	Display	1 x HDMI (Standard), 3840 x 2160 @30Hz 1 x Dual LVDS (up to 1.4b), 3840 x 2160 @30Hz 1 x eDP, 4096 x 2160 @60Hz
	Audio	1 x 3.5mm Combo audio jack 1 x Audio connector 1 x Mic connector 2 x Speaker connector
	I/Os	Serial 2 x RS232/RS422/RS485 2 x RS232
I/Os	USB	2 x USB 2.0 host Type-A 2 x USB 3.0 host Type-A 4 x Built-in USB 2.0
	GPIO	8 x GPIO
	SMBus	1 x SMBus
	RTC	Supported
	Watchdog	Supported
	Expansion	M.2/Mini PCIe
Security	TPM	1 x TPM module
Power	Input	12V-36V DC
	Consumption	10W+
Software	Operating system	Windows 10, Linux
	OTA tool	BlueSphere OTA
	SDK	Available
Mechanical	Dimensions	146mm x 102mm
	Cooling mode	Fanless, heat sink
Environment Condition	Temperature	Operating: -20°C~+60°C Storage: -40°C~+85°C
	Humidity	RH 5%-95% (Non-condensing)
	Certifications	FCC, IC, RoHS

**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.