# VT-SBC35-ADLN Series Single Board Computer



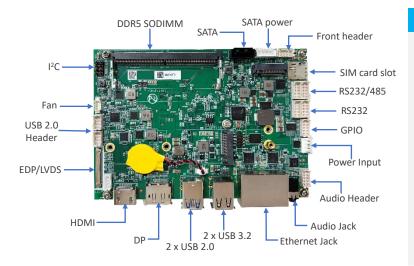
### **Brief Introduction**

VT-SBC35-ADLN Series Single Board Computer comes in a 3.5-inch form factor that is ideal for integration into embedded devices. The board is powered by five processor options, including Intel® IOTG processors, including Intel® Alder Lake-N N97, Core™ i3-N305, Core™ 3 N355, Atom® X7433RE, or Atom® X7835RE. This quad/octa-core processor features low power consumption while offering robust processing capabilities, making it a good choice for embedded systems, edge computing, and IoT devices.

This product is equipped with major display interfaces such as HDMI, DP, eDP, and LVDS, supporting 4K video output and three independent displays in extended mode and ensuring smooth visual performance for modern display scenarios. In addition, it provides an RJ45 Ethernet jack for IoT connectivity and M.2 B Key slot for expansion.

This product offers the choice between Windows 10/11 IoT and Ubuntu 22.04 operating systems to deliver great compatibility with development tools and software frameworks for embedded environments. This board is equipped with multiple internal connectors such as eDP, USB, SATA, M.2 SSD, and GPIO, ensuring flexible integration and expansion capabilities for a wide range of application scenarios such as smart retail, HMIs, and commercial display.

#### Exterior and Features

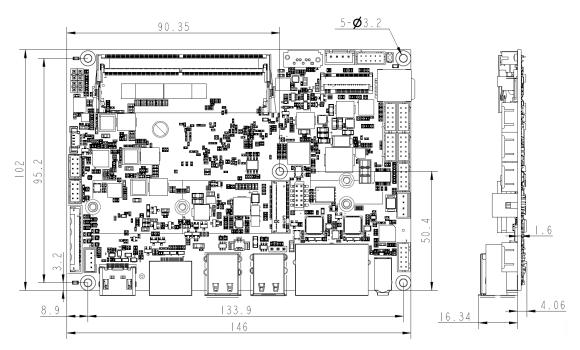


VT-SBC35-ADLN Series				
<b>#</b>	Intel® IOTG quad/octa-core processor			
<b>(</b>	Display output up to 4K			
<del></del>	Up to three displays in extended mode			
	Multiple interfaces for flexible expansion			
<u>@</u>	Gigabit Ethernet, Wi-Fi 6, BT 5.4			
K	Windows 10/11 IoT, Ubuntu 22.04			
	Compact and scalable			



		VT-SBC35-ADLN Series		
System	СРИ	Intel® IOTG Alder Lake-N N97, quad-core, up to 3.6GHz, 12W TDP Intel® IOTG Core™ i3-N305 Processor, octa-core, up to 3.8GHz, 15W TDP Intel® IOTG Core™ 3 Processor N355, octa-core, up to 3.9GHz, 15W TDP Intel® IOTG Atom® X7433RE Processor, quad-core, up to 3.4GHz, 9W TDP Intel® IOTG Atom® X7835RE Processor, octa-core, up to 3.6GHz, 12W TDP		
	SIO	Fintek F81966		
	Memory	DDR5 SO-DIMM, up to 16GB		
	Storage	eMMC 5.1, default: 64GB		
		1 × SATA 3.0, up to 600MB/s		
		SSD expansion by M.2 M-Key		
Communication	Ethernet	2 × RJ45, 2500 Mbps		
	Wi-Fi/BT	Optional: 802.11 a/b/g/n/ac/ax, Bluetooth 5.4		
	Cellular	Optional: 4G/5G (M.2 B key)		
		1 × HDMI 2.1b, up to 4096 × 2160@30Hz		
	Display interface	1 × DP 1.4a, up to 4096 × 2160@60Hz		
Media		1 × eDP 1.4b/LVDS, up to 4096 × 2304	4@60Hz	
iviedia	Multi-display	Up to 3 independent displays in exten	ded mode	
		1 × 3.5mm combo audio jack	1 × Line in header	
	Audio	1 × Line out header	1 × Speaker header, up to 2W	
	Serial port	2 × RS232 header	2 × RS232/RS485 header	
	HCD	2 × USB 3.2 Type-A	2 × USB 2.0 Type-A	
	USB	4 × USB 2.0 internal header		
I/O	GPIO	1 × 8-bit GPIO header (4 × GPI, 4 × GPO)		
	SIM	1 × SIM card slot		
	Front panel	1 × Front panel header (Power, reset, LED)		
	SATA power	1 × SATA power header		
	M.2	1 × M.2 B-key (2280/2242, SATA/PCIe for SSD expansion)		
		1 × M.2 B-key (3042/3052, PCIe/USB 3.0 for 4G/5G)		
Expansion		Optional: 1 × M.2 E-key (2230, PCle x1/USB 2.0 for Wi-Fi & BT expansion)		
	I <sup>2</sup> C	1 × I <sup>2</sup> C		
	RTC	Supported		
Miscellaneous	Watchdog timer	Supported		
Power	Input	12~36V DC	1 × Power header	
C-4	Operating system	Windows 10/11 IoT, Ubuntu 22.04		
Software	BIOS	UEFI BIOS		
Mechanical	Dimensions	146 mm × 102 mm (3.5-inch)		
Environment	Temperature	Operating: 0°C~+60°C	Storage: -20°C~+80°C	
Condition	Humidity	Operating and storage: RH 10%-85% (Non-condensing)		
	Cooling	$1 \times$ Smart fan connector, $1 \times$ Heat sink (Optional)		

## **Product Outlines**



## **Ordering Information**





Example Ordering No.	СРИ	Operating System	WLAN	Cellular Connectivity
VT-SBC35-ADLN-N97-U4G	Alder Lake-N N97	Ubuntu 22.04	-	4G
VT-SBC35-N305-X10W	Core™ i3-N305	Windows 10 IoT	Wi-Fi & Bluetooth	-
VT-SBC35-N355-X10W	Core™ 3 N355	Windows 10 IoT	Wi-Fi & Bluetooth	-
VT-SBC35-X33-UW5G	Atom® X7433RE	Ubuntu 22.04	Wi-Fi & Bluetooth	5G
VT-SBC35-X35-X11W5G	Atom® X7835RE	Windows 11 IoT	Wi-Fi & Bluetooth	5G

Packing List		
VT-SBC35-ADLN Series Single Board Computer	1	

Optional Accessories			
12V/5A power adapter & power cord	1 kit		
Heat sink under SBC	1		

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