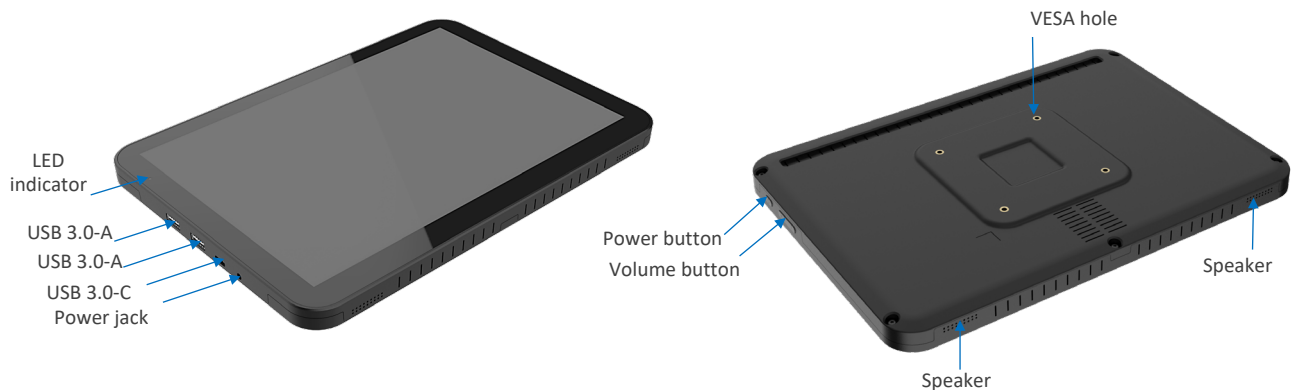# M12 12" General-Purpose Industrial Tablet

Product Brief

Featuring a 12-inch LCD display, Vantron M12 industrial tablet is powered by the robust Intel® Pentium® N4200 quad-core processor, ensuring seamless system responsiveness and smooth multitasking. It is equipped with a 10-point PCAP touchscreen, offering a 2160 × 1440 QHD resolution and 250 nits of brightness, delivering an exceptional visual experience.

With an ergonomic design, M12 is lightweight and slim to ensure ease of handling. It can be conveniently mounted on support arms via the VESA holes on the back. Additionally, it accommodates a high-capacity 5000mAh battery, significantly enhances operational endurance.

Built to meet the demands of both commercial and industrial environments, Vantron M12 provides powerful and versatile functionality tailored to diverse user requirements, enabling efficient task completion.

Exterior and Features

LED indicator
USB 3.0-A
USB 3.0-A
USB 3.0-C
Power jack

VESA hole
Power button
Volume button
Speaker
Speaker

- Intel® Pentium® N4200 Quad-core processor
- Large storage capacity for faster responsiveness
- 12" 2K IPS display, 250 nits
- 10-Point capacitive touchscreen
- 5000mAh battery for extended runtime
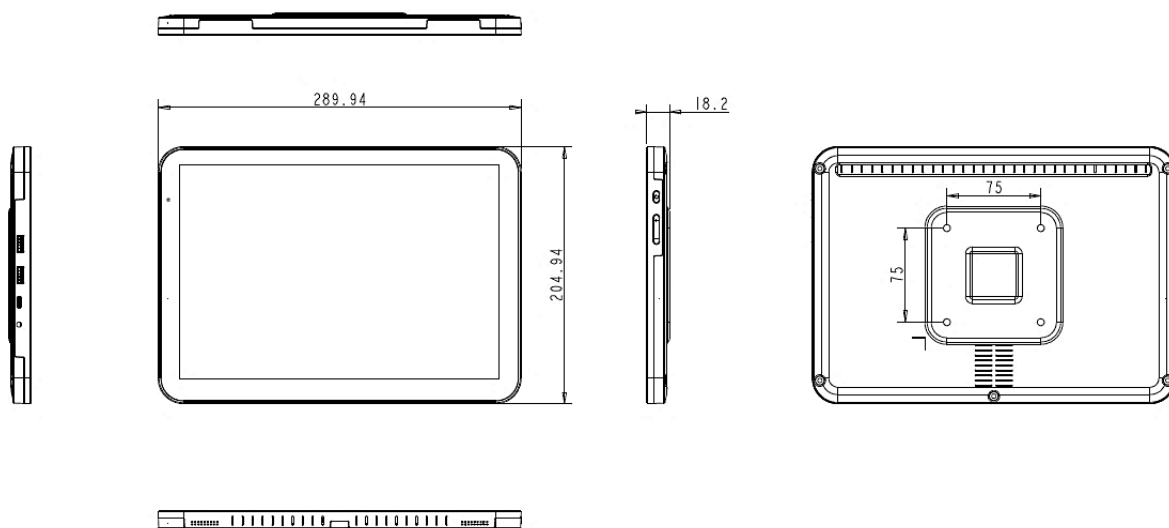- Windows operating system
- DisplayPort over USB Type-C
- 75mm x 75mm VESA mount for flexible integration

M12 12" General-Purpose Industrial Tablet Datasheet

M12			
System	CPU	Intel® Pentium® N4200 processor, 4C4T, 1.1GHz (base), 2.5GHz (turbo), 6W TDP	
		Optional: Intel® Celeron® N3450 processor, 4C4T, 1.1GHz (base), 2.2GHz (turbo), 6W TDP	
		Optional: Intel® Atom® x5-E3940 Processor, 4C4T, 1.6GHz (base), 1.8GHz (turbo), 9.5W TDP	
		Optional: Intel® Atom® x7-E3950 Processor, 4C4T, 1.6GHz (base), 2.0GHz (turbo), 12W TDP	
	GPU	Intel® HD Graphics 505	
	Memory	8GB LPDDR4	
	Storage	128GB M.2 SATA SSD (Optional: Max. 512GB)	
Communication	Wi-Fi & Bluetooth	Wi-Fi IEEE 802.11 a/b/g/n/ac + BT 5.0	
Media	Display	12"3:2 IPS LCD	
		Resolution	2160 × 1440
		Brightness	250 nits
		Color depth	16.7M
		Viewing angle	80°/80°/85°/85° (U/D/L/R)
	TP	10-point PCAP touchscreen	
		Surface hardness: 6H	
		Finishing process: Chemical tempering	
	Audio	2 x 2w speaker	
I/O	USB	2x USB 3.0 Type-A	1 x USB 3.0 Type-C (OTG, power input, DP output)
System Control	Button	1 x Power button	1 x Volume +/- button
	LED indicator	1 x LED indicator (Blue: Normal operation; Green: Charging)	
Miscellaneous	RTC	Supported	
	Watchdog timer	Supported	
	Security	TPM 2.0	
Software	OS	Windows 10 IoT, Windows 11 IoT	
	Application	SDK available	
Power	Input	12V DC	
		1 x Power jack	1 x USB Type-C
	Battery	5000mAh/7.4V rechargeable lithium battery	
	Consumption	15W (Typical)	
Mechanical	Casing color	Black	
	Dimensions	289.94mm x 204.94mm x 18.20mm	
	Cooling mode	Fanless	
	Installation	VESA mounting (75mm x 75mm, Screw size: M4 x 6mm)	
	Weight	1.1kg	
Environmental Condition	Temperature	Operating: 0°C ~+45°C	Storage: -20°C ~+60°C
	Humidity	Operating & Storage: 10%~85% RH (Non-condensing)	
Compliance	Certification	FCC, ISED, CE, UL	

Product Outlines

Ordering Information

Nomenclature

M12-**P**-**SSD**-**OS**

Operating System: **Null**-Windows 10 IoT; **Win11**-Windows 11 IoT

M.2 SATA SSD: **Null**-128GB; **SSD1**-256GB; **SSD2**-512GB

Processor: **Null**-Pentium® N4200; **N3450**-Celeron® N3450; **E3940**-Atom® x5-E3940; **E3950**-Atom® x7-E3950

Example Ordering No.	Processor	Storage	Operating System
M12	Pentium® N4200	128GB	Windows 10 IoT
M12-N3450-Win11	Celeron® N3450	128GB	Windows 11 IoT
M12-E3940-SSD2-Win11	Atom® x5-E3940	512GB	Windows 11 IoT
M12-E3950-SSD1	Atom® x7-E3950	256GB	Windows 10 IoT

Packing list			
M12 Industrial tablet	1	12V 3A Power adapter & Power cable	1 kit