

M08R1 8" Rugged Industrial Tablet

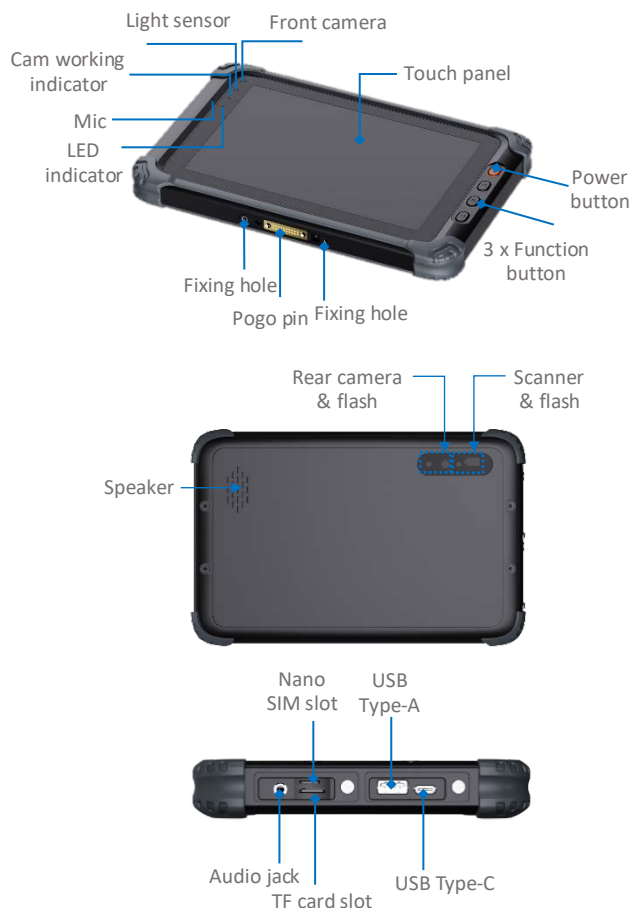









Product Brief

Vantron M08R1 high-performance rugged industrial tablet was designed for industrial applications, especially in healthcare, plant walk-down, law enforcement patrol, and prison automation. The device is Android-based, powered by NXP ARM multi-core processor with an 8-inch full HD capacitive touch screen to offer excellent human-machine interaction experience.

While featuring flexible specification options, large capacity battery, and out-performing power management system, it is fully rugged with IP65 dust and water resistance design and durably made to withstand the 1.5m drop test onto concrete surface. Its sunlight readable display ensures optimal outdoor performance and the large capacity battery is more than enough to get through a day of work.

Exterior and Features



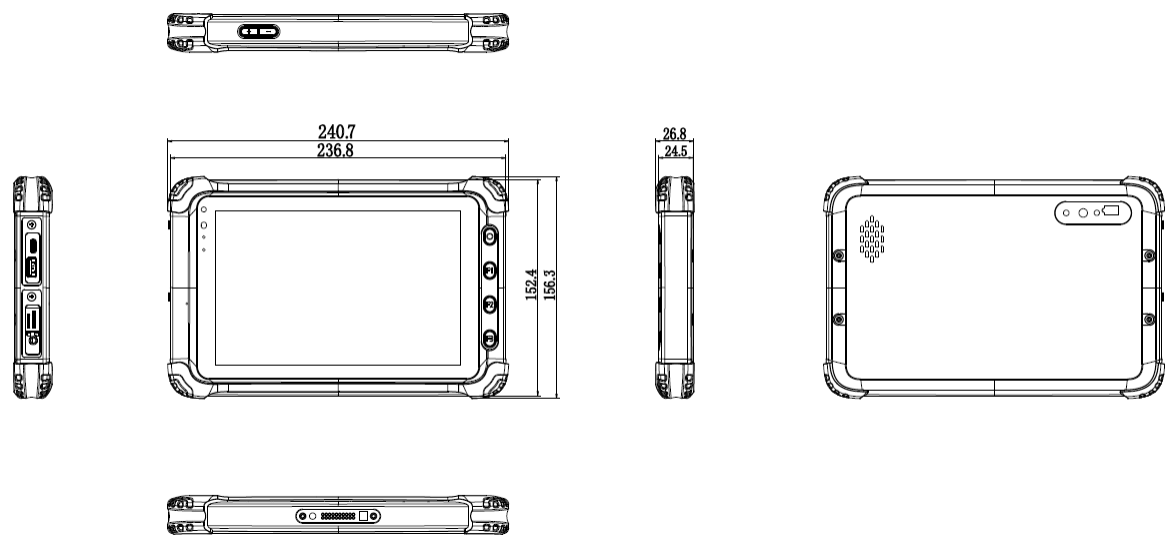
M08R1	
	Automotive grade chip
	Front & rear cameras, built-in barcode scanner
	IPS panel, 1920 x 1200, 600 nits, Sunlight readable
	6000mAh Battery, lasting for 8 hours
	IP65, 1.5m drop test onto a concrete floor from 6 sides
	Pogo pin for flexible expansion
	USB Type-C, 65W PD supported

M08R1 8" Rugged Industrial Tablet Datasheet

M08R1			
System	CPU	NXP i.MX 8X Quad-core ARM Cortex-A35 processor	
	Memory	4GB LPDDR4	Optional: 8GB
	Storage	64GB eMMC	Optional: 128GB
Communication	Wi-Fi & Bluetooth	Wi-Fi 802.11 a/b/g/n/ac/ax + BT 5.0	
	Cellular	2G, 3G, 4G	
	NFC	IC	ISO14443 Type A/Mifare
		ID	EM ID, TK ID, etc.
		Response	< 1s @5cm
	GNSS	GPS + BeiDou + GLONASS + Galileo	
Media	Display	8" 16:9 IPS panel, sunlight readable	
		Resolution	1920 x 1200
		Brightness	600 nits
		Contrast Ratio	800:1
		Viewing Angle	Horizontal: ±85° or 170° total / Vertical: ±85° or 170° total
	TP	5-point G + G PCAP touch screen	Surface hardness: 6H Finishing process: Toughening
	Camera	Front camera	5MP, fixed focus, with working indicator
		Rear camera	5MP, auto focus, with flash
	Audio	1 x 8Ω/1w speaker 1 x 3.5mm combo audio jack, debugging supported 1 x Mic	
I/Os	USB	1 x USB 3.0 Type-A	1 x USB 2.0 Type-C
	Built-in barcode scanner	Bar width	> 7Mil
		Pixel	> 640 x 480
	Pogo pin	2 x 10 pin, supporting CAN J1939, USB 3.0, 100Mbps Ethernet RJ45, Audio Jack, RS232/RS485 Combo, TJA1100HN 100Base-T1 PHY	
	SIM slot	1 x Nano SIM card slot	
	SD slot	1 x TF card slot (up to 128GB)	
	Security	1 x TPM 2.0	
Sensor	Light sensor	1 x Light sensor	
	Gyro-sensor	1 x Gyro-sensor	
	G-Sensor	1 x G-sensor	
System Control	Button	1 x Power button	3 x Function button
	LED indicator	1 x System status / Battery condition	
Software	OS	Android 11 / Linux Yocto + QT	
	Device management platform	BlueSphere MDM (Android devices only)	
	OTA tool	BlueSphere OTA	
Power	Input	USB Type-C power input, 5V/2A DC & 9V/2A DC, 65W PD supported	
	Battery	6000mAh/7.7V, 8 hours working time*	
Mechanical	Material	PC, ABS	
	Dimensions	240.7mm x 156.3mm x 26.8mm	
	Net weight	750g	
Performance Standard	Waterproof	IP65	
	Drop test	MIL-STD-810H, drop from 1.5m onto a plywood surface over concrete from 6 sides	
	Vibration	MIL-STD-810H: Method 516.8, Procedure I	
		Operating: 20g, Idle: 40g	
	Thermal shock	MIL-STD-810H: Method 503.7 Operating: -20°C ~+60°C, Idle: -30°C ~+70°C	
	Solar radiation	MIL-STD-810H: Method 505.7	
	Liquid pollution	MIL-STD-810H: Method 504.3	
Environment Condition	Temperature	Operating: -20°C ~+60°C	Storage: -30°C ~+70°C
	Humidity	5%-95% RH (Non-condensing)	
	Certification	MIL-STD-810H ISED	FCC (FCC Part 15 Class B) ESD (Contact: ±4KV, Air: ±8KV)

* Source: Test with 1080p video play at 50% volume and 200 nits brightness.

Product Outlines



Ordering Information

Ordering No.	Memory	Storage
M08R1-L	4GB	64GB
M08R1-H	8GB	128GB

Packing list	
M08R1 Industrial tablet	1
5V/2A Power adapter	1
USB cable	1

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 several Fortune 500 companies. Its product lines cover edge intelligent hardware, IoT communication devices, industrial displays and BlueSphere cloud device management platform.

Vantron’s intelligent display systems are comprised of industrial tablets, touchscreen monitors, and all-in-one panel PCs that deliver enhanced device performance and exceptional human-machine interactive experience. The industrial tablets are powered by industry-leading brands such as Rockchip, NXP, MediaTek, and Intel. The touchscreen monitors offer flexible installation options to cater to various application scenarios. The all-in-one panel PCs offer an overall solution that integrates the touchscreen monitor, display, processor, and operating system. Moreover, the displays are built to excel in harsh environments thanks to advanced features like waterproofing, dustproofing, and shatter resistance.