

TPC070-RK88

7" All-in-one Panel PC



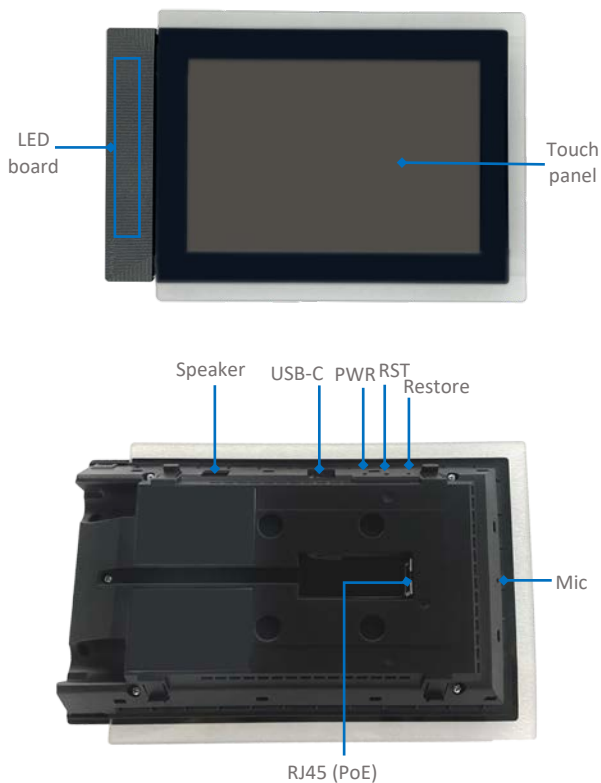
Product Brief

Vantron TPC070-RK88 is a sleek 7" all-in-one panel PC, powered by the Rockchip RK3288W processor. It features a 5-point PCAP touchscreen monitor with an aspect ratio of 16:9 and a resolution of 1280 x 800. TPC070-RK88 includes a visually appealing LED board on the front panel, featuring 12 tri-color light beads that serve both decorative and user-defined functional purposes.


Audio functionality is well-supported with an integrated 8W speaker and a microphone, making it ideal for clear communication in online conferences and remote collaborations. Networking is versatile, with options for Ethernet, Wi-Fi, and Bluetooth, catering to various applications from home and office automation to use in compact medical devices.

The device adheres to the IEEE 802.3at standard, allowing it to be powered via Power over Ethernet (PoE) using a CAT 5 or higher Ethernet cable. It also offers the flexibility of an optional back cover and stand to be conveniently placed on a desktop for ease of use.

Exterior and Features



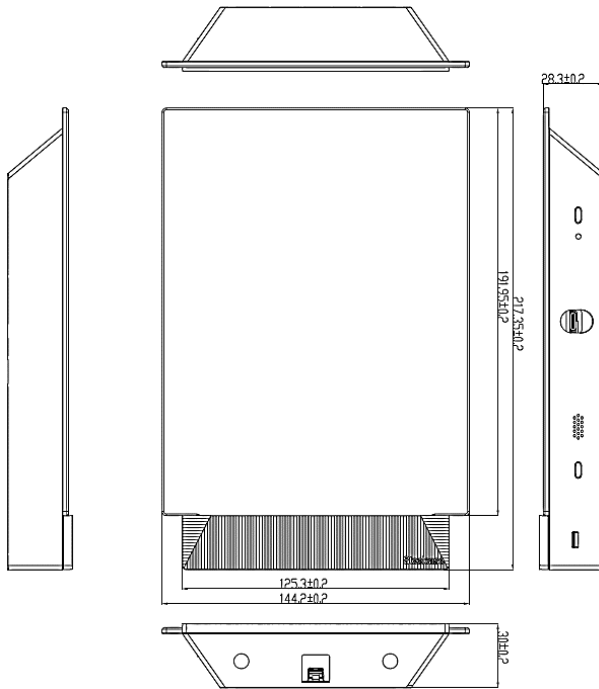
TPC070-RK88

-  Rockchip RK3288W Quad-core processor
-  2GB RAM + 32GB storage, expandable
-  Android 8.1 operating system
-  7-inch TFT LCD, 16:9, 1280 x 800, 400 nits
-  2.4GHz & 5GHz Wi-Fi, Bluetooth 4.2
-  Gigabit Ethernet, PoE supported
-  USB Type-C, OTG supported

TPC070-RK88 7" All-in-one Panel PC Datasheet

TPC070-RK88			
System	CPU	RockChip RK3288W, Quad-core ARM Cortex-A17 processor, 1.6 GHz (Max.)	
	Memory	2GB LPDDR3 1866MHz (Optional: 4GB)	
	Storage	32GB eMMC 5.1	
Communication	Ethernet	1 x RJ45, 1000Mbps, PoE supported (IEEE 802.3at)	
	Wi-Fi & BT	Wi-Fi 802.11 a/b/g/n/ac + BT 4.2	
Media	Display	7-inch TFT LCD	Contrast ratio: 800:1
		Resolution: 1280 x 800	Aspect ratio: 16:9
		Brightness: 400 nits	Viewing angle: 80/80/80/80 (U/D/L/R)
	TP	5-point PCAP touch screen	Surface hardness: 6H
		Surface treatment (Optional): Anti-glare (AG), anti-reflection (AR)	Cover lens: IK05 rated Light transmittance ratio: > 85%
	Audio	1 x 1W 8Ω Speaker	1 x Microphone (6 x 2.7mm, 38db)
I/Os	USB	1 x USB Type-C (OTG supported)	
	LED board	1 x LED board with 12 tri-color light beads (user-definable)	
	RTC	Supported	
	WDT	Supported	
System control	Pinhole button	1 x Power button (Turn on/off the screen)	
		1 x Reset button (Restart the device upon short press)	
		1 x Restore button (Factory reset the device upon a press for about 7 seconds)	
Software	Operating system	Android 8.1	
	Device management	BlueSphere MDM (Optional)	
Power	Input	5V PoE	
Mechanical	Dimensions	217mm x 144mm x 30mm	
	Installation	Desktop, Wall mounting (optional stand, back cover, mounting tape)	
	Weight	670g	
	Heat dissipation	Heatsink	
Environment condition	Temperature	Operating: 0°C ~ +40°C	
	Humidity	Operating: 5% ~ 85% RH (Non-condensing)	
	Certification	FCC, CE	
	Warranty	2 years	

Product Outlines



Ordering Information

Ordering No.	Memory	Storage	Wi-Fi & BT	Ethernet	PoE (PD)
TPC070-RK88-L	2GB	32GB	Yes	Yes	Yes
TPC070-RK88-H	4GB	32GB	Yes	Yes	Yes

Packing list	
TPC070-RK88 all-in-one panel PC	1
Qualified certificate	1

Optional accessories	
Back cover	1
Stand	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 Fortune Global 500 companies. Its product lines cover intelligent edge hardware, IoT communication devices, intelligent displays, and BlueSphere cloud platforms.

Vantron’s intelligent displays are comprised of industrial tablets, touchscreen monitors, and all-in-one panel PCs that deliver enhanced device performance and exceptional human-machine interactive experiences. 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.

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