

TPC156-RK3588

15.6" All-in-one Panel PC

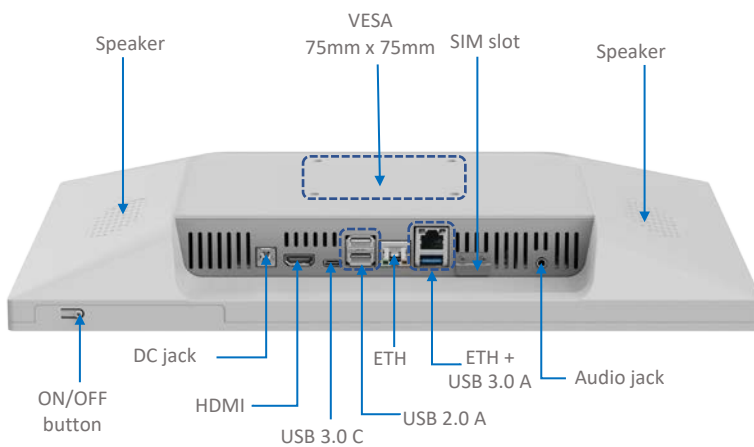


Product Brief








Vantron TPC156-RK3588 is a 15.6" desktop all-in-one panel PC, powered by RK3588 octa-core high-performance processor. It features a 15.6-inch 10-point PCAP touchscreen monitor with 16:9 aspect ratio and runs Android 12 operating system with Linux distributions available. TPC156-RK3588 offers rich interfaces for connection of different peripherals and displays, making it very suitable for application in self-service kiosks and multi-media terminals. The VESA pattern also allows for more flexible mounting and maintenance for application in industrial control.

Vantron TPC series all-in-one panel PCs offer an overall solution that integrates the touchscreen monitor, display, processor, and software operating system, making them a first choice in IoT applications.

Exterior and Features



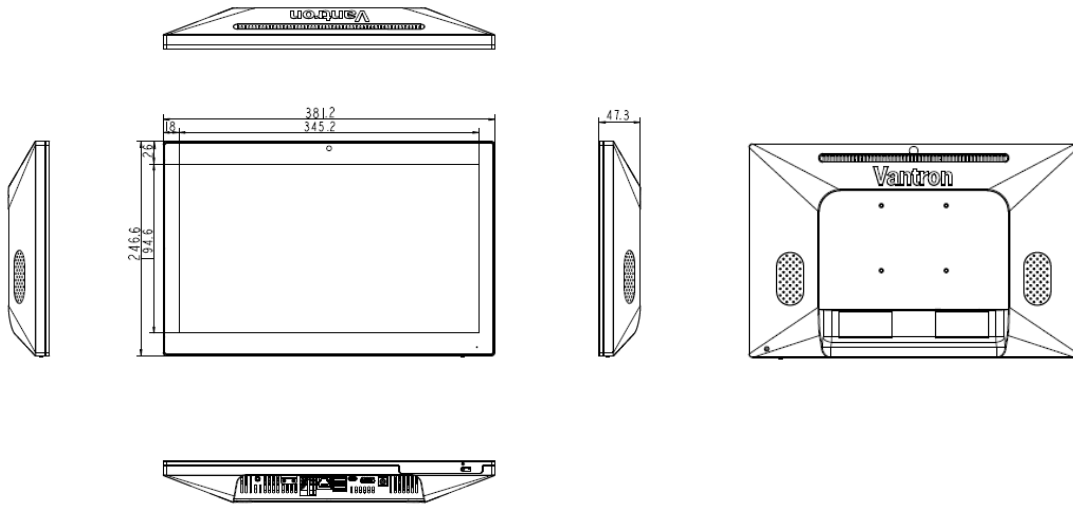
TPC156-RK3588

-  RK3588 Octa-core high-performance processor
-  Android 12 or later, Linux distributions available
-  15.6-inch TFT LCD, 10-point PCAP touch screen
-  SMP front camera, optional facial recognition algorithm
-  Ethernet/Wi-Fi/Bluetooth/4G LTE supported
-  Dual gigabit Ethernet ports
-  Sleek appearance, flexible installation (horizontal, vertical, desktop, wall mounting, floor mounting)

TPC156-RK3588 15.6" All-in-one Panel PC Datasheet

TPC156-RK3588			
System	CPU	Rockchip RK3588, Quad-core ARM Cortex A76 + Quad-core ARM Cortex A55 processor, 2.4GHz (Max.)	
	Memory	8GB (Optional: 4GB)	
	Storage	32GB (Optional: 64GB)	Optional: Expansion by an M.2 M-Key/B-Key
Communication	Ethernet	2 x RJ45, 10/100/1000Mbps	
	Wi-Fi & BT	2.4GHz & 5GHz 802.11 a/b/g/n/ac/ax + BT 5.0 and later	
	Cellular	Optional: 4G LTE (CAT 4)	
Media	Display	15.6-inch TFT LCD	Contrast ratio: 800:1
		Resolution: 1920 x 1080 @60Hz	Aspect ratio: 16:9
		Brightness: 300 nits	Viewing angle: 89/89/89/89 (U/D/L/R)
	External display	1 x HDMI, up to 4K @60Hz	
	TP	10-point PCAP touch screen	Surface hardness: 6H
		Surface treatment: Anti-fingerprint Optional: Anti-glare & anti-reflection	Cover lens: At least IK03 rated Light transmittance ratio: > 85%
	Camera	Front camera, 5MP	
Audio	1 x 3.5mm combo audio jack	Built-in dual-track speakers (2 x 2W)	
I/Os	USB	1 x USB 3.0 Type-C	1 x USB 3.0 Type-A
		2 x USB 2.0 Type-A	
	RTC	Supported, scheduled on/off supported	
	WDT	Supported	
	SIM slot	1 x SIM slot	
	Expansion	1 x M.2 M-Key 2260/2280, PCIe 3.0 x 4, for SSD expansion 1 x M.2 B-Key 2242/3052, USB3.0/SATA3.0, for SSD/4G LTE expansion	
System control	Button	1 x ON/OFF button	
	LED indicator	1 x LED indicator (Power and system status)	
Software	OS	Android 12 or later	Optional: Debian 11, Ubuntu 20.04
	Device management platform	BlueSphere MDM (Android version only)	
	OTA tool	BlueSphere OTA	
Power	Input	12V/24V DC	1 x DC jack
	Consumption	< 35W	
Mechanical	Dimensions	381.2mm x 246.6mm x 47.3mm	
	Installation	VESA mounting (75mm x 75mm)	
	Protective features	IP54 (front side only)	
	Heat dissipation	Fanless (Heatsink/housing)	
Environment condition	Temperature	Operating: 0°C ~ +40°C	Storage: -20°C ~ +60°C
	Humidity	RH 0-90% (Non-condensing)	
	Touch life	> 50 million touches	
	Certification	CCC, FCC	

Product Outlines



Ordering Information

Ordering No.	Memory	Storage	Front camera	Wi-Fi & BT	Ethernet	4G LTE
TPC156-RK3588-L	4GB	32GB	Yes	Yes	Yes	-
TPC156-RK3588-L4	4GB	32GB	Yes	Yes	Yes	Yes
TPC156-RK3588-H	8GB	64GB	Yes	Yes	Yes	-
TPC156-RK3588-H4	8GB	64GB	Yes	Yes	Yes	Yes

* More variants are available, please contact the sales executive for details.

Packing List	
TPC156-RK3588 all-in-one panel PC	1
12V 5A DC adapter	1
AC power cable (US)	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 mobile PCs and touchscreen monitors that deliver enhanced device performance and exceptional human-machine interactive experience. The mobile PCs 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. Moreover, the displays are built to excel in harsh environments thanks to advanced features like waterproofing, dustproofing, and shatter resistance.

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