

TPC185-RK3588

18.5" All-in-one Panel PC

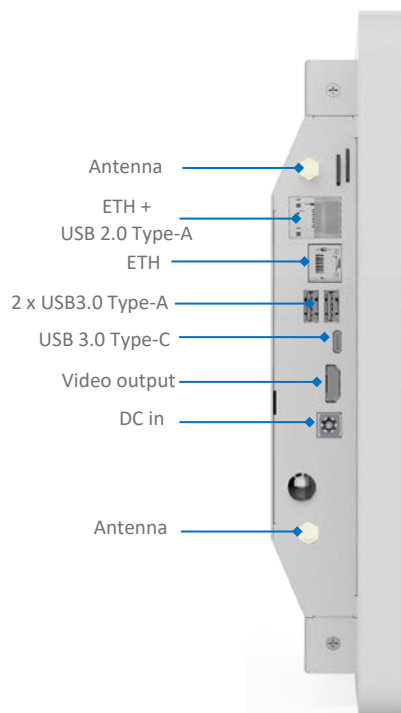


Product Brief


Vantron TPC185-RK3588 is an 18.5" desktop all-in-one panel PC, powered by RK3588 octa-core high-performance processor. It is equipped with a 21.5-inch 10-point PCAP touch screen, featuring 16:9 full HD display. It offers multiple configuration options. Its rich interfaces allow for connection of different peripherals and displays, making it very suitable to be applied in self-service kiosks and multi-media terminals. The VESA pattern also allows users to mount and maintain the device more flexibly for 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



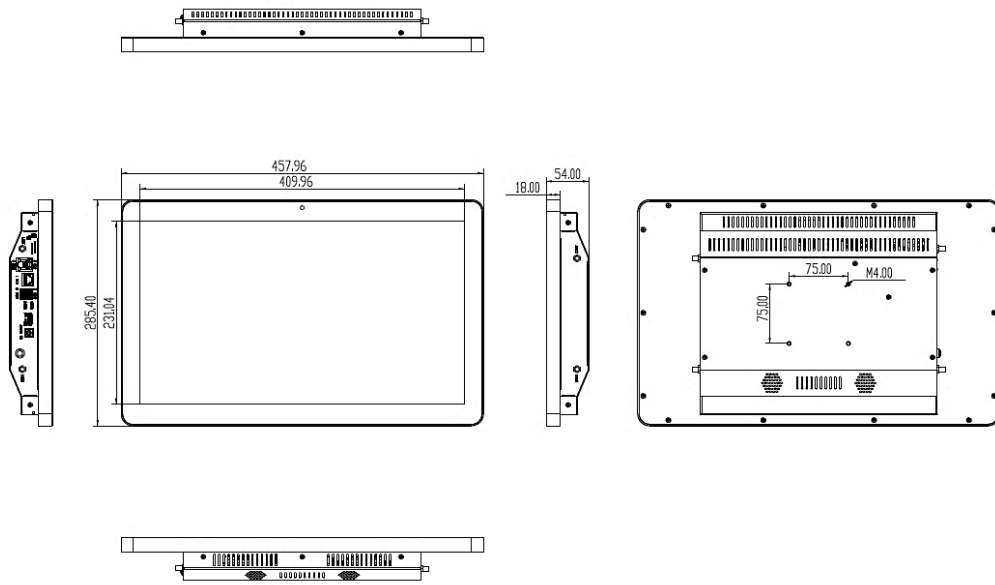
TPC185-RK3588

-  RK3588 octa-core high-performance processor
-  Android 12 system, Linux distributions available
-  18.5-inch TFT LCD, FHD, 16:9, 300 nits
-  5MP fixed-focus front camera
-  Low power, fanless design
-  Ethernet/Wi-Fi/Bluetooth/4G LTE supported
-  Sleek appearance, white and black colors for choice
-  Flexible installation (horizontal, vertical, desktop, wall mounting, floor mounting)

TPC185-RK3588 18.5" All-in-one Panel PC Datasheet

TPC185-RK3588				
System	CPU	Rockchip RK3588, Quad-core Cortex-A76 + Quad-core Cortex-A55, Max. 2.4GHz		
	GPU	ARM Mali-G610 MC4, Max. 1GHz		
	NPU	6 TOPS		
	Memory	8GB		
	Storage	64GB M.2 SSD expansion supported		
Communication	Ethernet	2 x RJ45, 10/100/1000Mbps		
	Wi-Fi & BT	Wi-Fi 802.11 a/b/g/n/ac/ax + BT 5.0		
	Cellular	4G LTE (Optional)		
Media	Display	18.5-inch TFT LCD	Contrast ratio: 1000:1	
		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 (Optional): Anti-glare (AG), anti-reflection (AR)	Cover lens: At least IK03 rated Light transmittance ratio: > 85%	
	Camera	Front camera, 5MP, fixed focus		
Audio	Built-in dual-track speakers (Max. 3W)			
I/Os	USB	1 x USB 3.0 Type-C	1 x USB 2.0 Type-A	
		2 x USB 3.0 Type-A		
	RTC	Supported		
	WDT	Supported		
System control	Button	1 x Power button		
	LED indicator	1 x LED indicator for power and system status (Optional)		
Software	OS	Android 12		
	Device management platform	BlueSphere MDM (Optional)		
	OTA tool	BlueSphere OTA (Optional)		
Power	Input	12V/24 DC		
	Interface	1 x Power jack		
	Consumption	~ 28W		
Mechanical	Dimensions	457.96mm x 285.40mm x 54.00mm		
	Housing color	White/black		
	Installation	VESA mounting (75mm x 75mm, M4 x 10mm)		
	Heat dissipation	Fanless (Heatsink, housing)		
Environment condition	Temperature	Operating: -10°C ~ +50°C	Storage: -20°C ~ +70°C	
	Humidity	Operating: 20%~80% RH (Non-condensing) Storage: 10%~90% RH (Non-condensing)		
	Touch life	> 50 million touches		
	Certification	CCC, FCC		

Product Outlines



Ordering Information

Ordering No.	Memory	Storage	Camera	Black casing	White casing
TPC185-RK3588-W	8GB	64GB	Yes	-	Yes
TPC185-RK3588-B	8GB	64GB	Yes	Yes	-

Packing list	
TPC185-RK3588 all-in-one panel PC	1
Wi-Fi & BT antenna	2
Qualified certificate	1

Optional accessories	
12V 5A DC adapter	1
AC power cable (US)	1
4G LTE antenna	2

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 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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