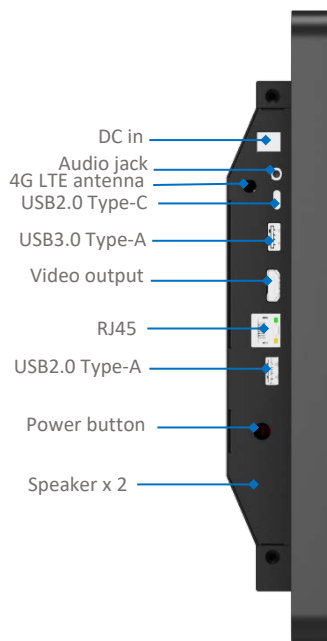# TPC185-RK3568

18.5" All-in-one Panel PC

Product Brief

Vantron TPC185-RK3568 is an 18.5" desktop all-in-one panel PC, powered by RK3568 quad-core high-performance processor. It features a 10-point PCAP touchscreen monitor with an aspect ratio of 16:9 and a resolution up to 1920 x 1080. TPC185-RK3568 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.
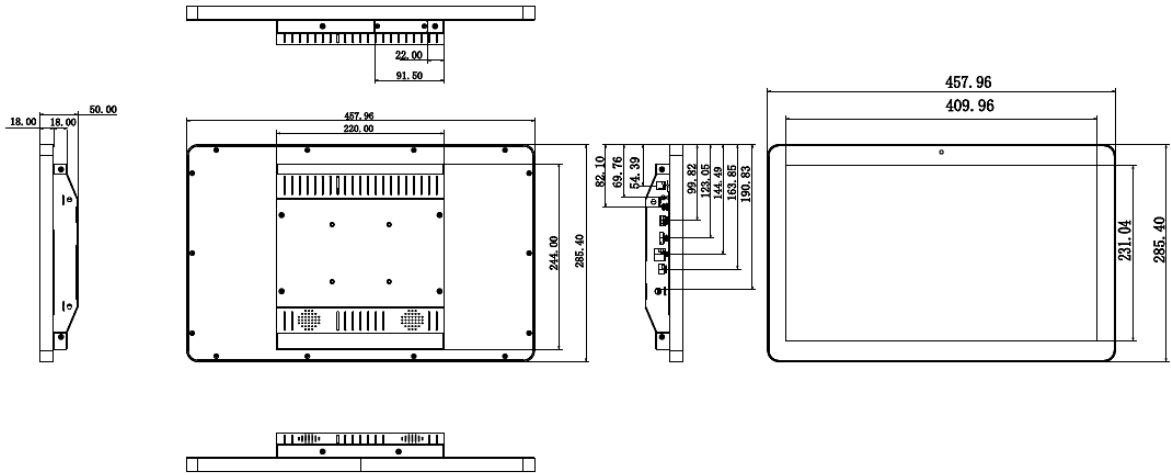
Exterior and Features

DC in
Audio jack
4G LTE antenna
USB2.0 Type-C
USB3.0 Type-A
Video output
RJ45
USB2.0 Type-A
Power button
Speaker x 2

TPC185-RK3568
RK3568 quad-core high-performance processor
Android 11 system, Linux distributions available
10-point PCAP touch screen, gloves compatible
5MP front camera, stereo speaker
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-RK3568 18.5" All-in-one Panel PC Datasheet

TPC185-RK3568			
System	CPU	Rockchip RK3568, Quad-core ARM Cortex A55 processor, 1.8GHz (Max.)	
	Memory	4GB (Optional: 2GB)	
	Storage	32GB (Optional: 16GB)	
		SSD expansion supported (M.2 B-Key)	
Communication	Ethernet	1 x RJ45, 10/100/1000Mbps	
	Wi-Fi & BT	Wi-Fi 802.11 a/b/g/n/ac + 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)
	Extended 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	1 x 3.5mm combo audio jack	Built-in dual-track speakers (Max. 3W)
I/Os	USB	1 x USB 2.0 Type-C	1 x USB 3.0 Type-A
		1 x USB 2.0 Type-A	
	RTC	Supported	
	WDT	Supported	
System control	Button	1 x Power button	
	LED indicator	Optional: 1 x LED indicator for power and system status	
Software	OS	Android 11	Optional: Linux
	Device management platform	BlueSphere MDM for Android version (Optional)	
	OTA tool	BlueSphere OTA (Optional)	
Power	Input	12V DC	1 x Power jack
	Consumption	~ 25W	
Mechanical	Dimensions	457.96mm x 285.40mm x 50.00mm	
	Casing color	White/black	
	Installation	VESA mounting (75mm x 75mm, M4 x 10mm)	
	Weight	5kg	
	Heat dissipation	Fanless (Heatsink, housing)	
Environment condition	Temperature	Operating: -10℃ ~ +50℃	
		Storage: -20℃ ~ +70℃	
	Humidity	Operating: 20%-80% RH (Non-condensing)	
		Storage: 10%~90% RH (Non-condensing)	
	Certification	CCC, FCC	
	Warranty	2 years	

Product Outlines

Ordering Information

Ordering No.	Memory	Storage	Front camera	Black casing	White casing
TPC185-RK3568-LW	2GB	16GB	Yes	-	Yes
TPC185-RK3568-LB	2GB	16GB	Yes	Yes	-
TPC185-RK3568-HW	4GB	32GB	Yes	-	Yes
TPC185-RK3568-HB	4GB	32GB	Yes	Yes	-

Packing List	
TPC185-RK3568 all-in-one panel PC	1
Wi-Fi & BT antenna	1
Qualified certificate	1

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