

TPC150-RK3568

15" All-in-one Panel PC



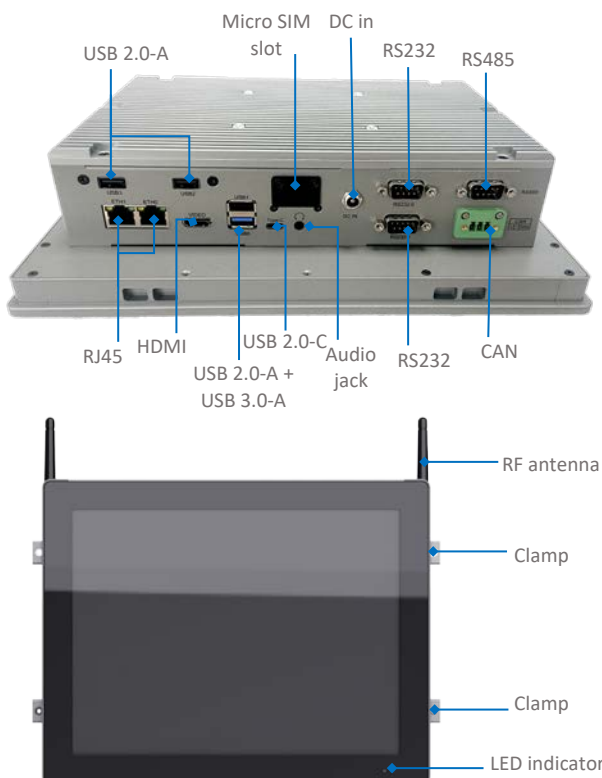
Product Brief

Vantron TPC150-RK3568 is a 15" panel mount all-in-one panel PC. It is powered by Rockchip RK3568 quad-core high-performance processor that offers rich interfaces such as RS232, RS485, CAN, and USB to enable seamless connection with diverse peripherals.










TPC150-RK3568 features a 10-point PCAP touchscreen monitor with an XGA resolution and a 4:3 aspect ratio. It offers multiple connectivity options, including dual Ethernet, Wi-Fi, Bluetooth, and optional 4G LTE. The front panel is IP65 rated, making it ideal for industrial control applications when panel mounted with the provided clamps. In addition, the 75mm x 75mm VESA pattern provides it with flexibility for installation in various settings.

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



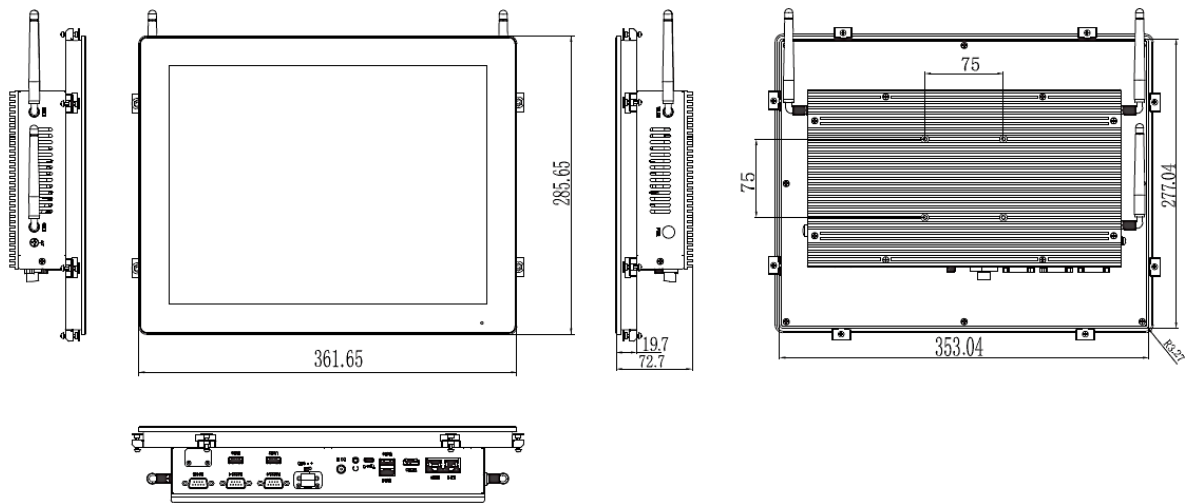
TPC150-RK3568

-  RK3568 quad-core high-performance processor
-  15" XGA TFT LCD, 300 nits
-  10-point PCAP touch screen, gloves compatible
-  Android 11 system, optional Ubuntu 20.04
-  Ethernet, Wi-Fi, Bluetooth, optional 4G LTE
-  Rich I/Os, including RS232, RS485, CAN, USB
-  Front panel IP65 rated
-  Fanless design
-  Panel mount, VESA mount

TPC150-RK3568 15" All-in-one Panel PC Datasheet

TPC150-RK3568				
System	CPU	Rockchip RK3568, Quad-core ARM Cortex A55 processor, 2.0GHz (Max.)		
	Memory	4GB		
	Storage	32GB		
Communication	Ethernet	2 x RJ45, 10/100/1000Mbps		
	Wi-Fi & BT	Wi-Fi 802.11 a/b/g/n/ac + BT 5.0		
	4G LTE	Optional, CAT 4		
Media	Display	15-inch TFT LCD	Contrast ratio: 800:1	
		Resolution: 1024 x 768 @60Hz	Aspect ratio: 4:3	
		Brightness: 300 nits	Viewing angle: 80/80/85/85 (U/D/L/R)	
	Extended display	1 x HDMI, up to 4K @30Hz		
	TP	10-point PCAP touch screen	Surface hardness: 6H	
		Surface treatment: Anti-fingerprint (AF)	Cover lens: At least IK07 rated	
Optional: Anti-glare (AG), anti-reflection (AR)		Light transmittance ratio: > 85%		
Audio	1 x 3.5mm combo audio jack			
I/Os	USB	3 x USB 2.0 Type-A	1 x USB 3.0 Type-A	
		1 x USB 2.0 Type-C (OTG)		
	Serial port	2 x RS232, DB9 (9600, 8N1)	1 x RS485, DB9 (9600, 8N1)	
	CAN	1 x CAN, with transmitter (default bitrate: 20kHz)		
	Antenna	RF0: Wi-Fi & Bluetooth antenna	RF1, RF2: 4G LTE antenna	
	SIM slot	1 x Micro SIM slot		
	RTC	Supported		
WDT	Supported			
System control	Button	1 x Power button		
	LED indicator	1 x LED indicator (Green: device running; Red: device standby)		
Software	OS	Android 11	Optional: Ubuntu 20.04	
	Time calibration	NTP server		
	Display orientation	Landscape mode by default (Portrait mode supported)		
	Device management	BlueSphere MDM (Optional for Android version)		
Power	Input	12V DC	1 x Power jack	
	Consumption	Android: Max.: 13.5W; Idle: 12.5W	Ubuntu: Max.: 16.5W; Idle: 11W	
Mechanical	Dimensions	361.65mm x 285.65mm x 72.7mm		
	Installation	VESA mount (75mm x 75mm, M4 x 6mm)	Panel mount	
	Weight	4.2kg		
	Heat dissipation	Fanless		
Environment condition	Temperature	Operating: 0°C ~ +60°C	Storage: -20°C ~ +80°C	
	Humidity	Operating: 5%-95% RH (Non-condensing)		
		Storage: 10%~90% RH (Non-condensing)		
Certification	CCC, FCC, CE	ESD: ±4KV (Contact); ±8KV (Air)		
Reliability	MTBF	50,000 hours		
	Warranty	2 years		

Product Outlines



Ordering Information

Ordering No.	Memory	Storage	Connectivity	Description
TPC150-RK3568	4GB	32GB	Ethernet, Wi-Fi, Bluetooth	RS232, RS485, CAN, USB
TPC150-RK3568-4G	4GB	32GB	Ethernet, Wi-Fi, Bluetooth, 4G LTE	

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

Packing List	
TPC150-RK3568 all-in-one panel PC	1
Wi-Fi & BT antenna	1
Mounting clamp	4
CAN mating connector	1

Optional accessories	
12V 3A DC power 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 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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