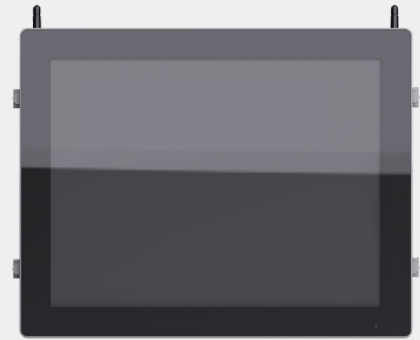


TPC150-3568

15" All-in-one Panel PC



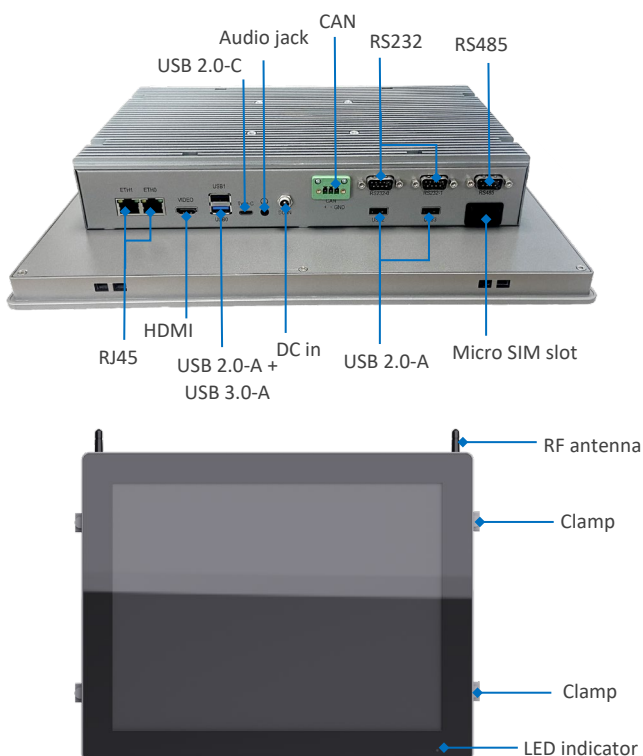
Product Brief

Vantron TPC150-3568 is a 15" panel mount all-in-one panel PC. It is powered by an ARM-based quad-core high-performance processor that offers rich interfaces such as RS232, RS485, CAN, and USB to enable seamless connection with diverse peripherals.

TPC150-3568 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



TPC150-3568



ARM-based 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/O, including RS232, RS485, CAN, USB



Front panel IP65 rated



Fanless design

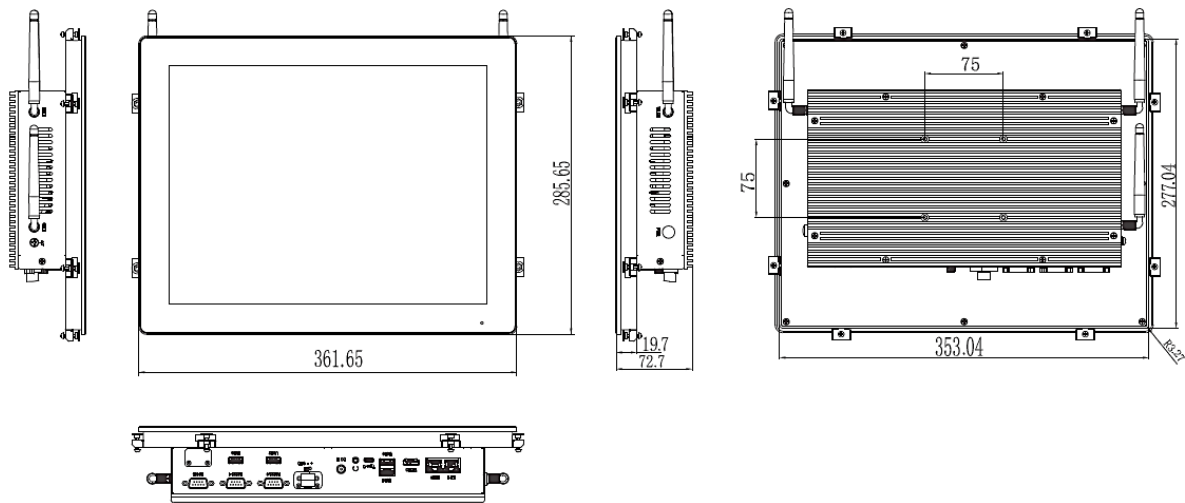


Panel mount, VESA mount

TPC150-3568 15" All-in-one Panel PC Datasheet

TPC150-3568			
System	CPU	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 (typical)	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: IK07 rated
		Optional: Anti-glare (AG), anti-reflection (AR)	Light transmittance ratio: > 85%
		Touch input: Finger, stylus, gloves (conductive or ≤1mm thick non-conductive)	
	Audio	1 x 3.5mm combo audio jack (CTIA standard)	
I/O	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 (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: Normal operation; Red: 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	Typical: 16.5W	Max.: 27W
Mechanical	Dimensions	361.65mm x 285.65mm x 72.7mm	
	Installation	VESA mounting (75mm x 75mm, M4 x 6mm)	Panel mounting
	Weight	4.2kg	
	IP rating	Front panel IP65	
	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)	
Reliability	Certification	FCC, CE	ESD: ±4KV (Contact); ±8KV (Air)
	MTBF	50,000 hours	
	Warranty	2 years	

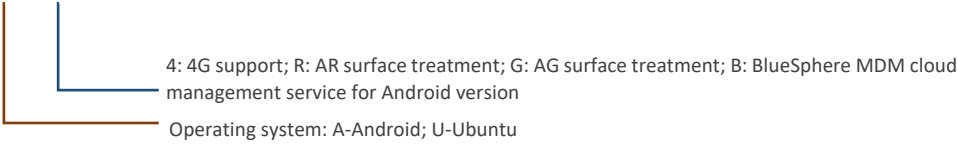
Product Outlines



Ordering Information

Nomenclature

TPC150-3568-[OS-Add-on features]



Example Ordering No.	Memory	Storage	Add-on	Operating system
TPC150-3568-A	4GB	32GB	/	Android 11
TPC150-3568-A4	4GB	32GB	4G LTE	Android 11
TPC150-3568-A4B	4GB	32GB	4G LTE, BlueSphere MDM cloud service	Android 11
TPC150-3568-U	4GB	32GB	/	Ubuntu 20.04
TPC150-3568-U4	4GB	32GB	4G LTE	Ubuntu 20.04
TPC150-3568-U4G	4GB	32GB	4G LTE, AG treatment	Ubuntu 20.04

Packing list	
TPC150-3568 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 for 4G version	2

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