TPC150-EKT 15" All-in-one Panel PC

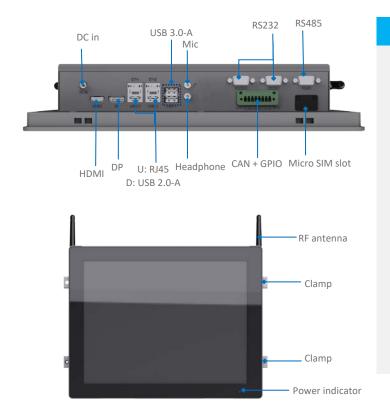


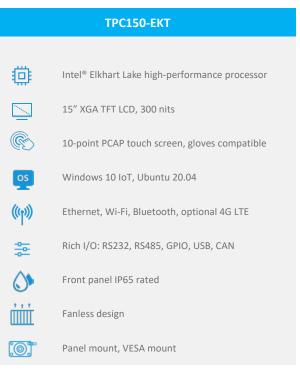
Product Brief

Vantron TPC150-EKT is a 15" panel mount all-in-one panel PC. It is powered by Intel[®] Elkhart Lake quad-core high-performance processor that offers rich interfaces such as RS232, RS485, GPIO, USB, and CAN, enabling seamless connection with diverse peripherals.

TPC150-EKT features a 10-point PCAP touchscreen monitor with an XGA native 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 such as retail, smart city, and healthcare 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.





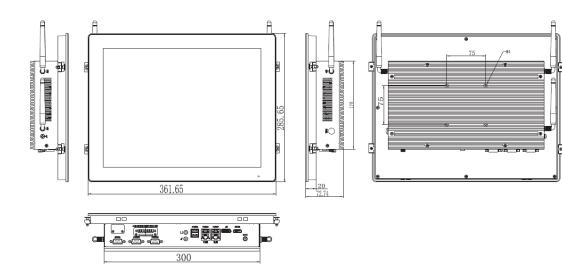
Exterior and Features

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

		TPC150-EKT			
	CPU	Intel® Atom®x6425E Processor, 4C4T, 2.0GHz (base), 3.0GHz (turbo), 12W TDP Intel® Celeron®J6412 Processor, 4C4T, 2.0GHz (base), 2.6GHz (turbo), 10W TDP			
System	Memory	1 x DDR4 SO-DIMM, 3200MT/s, up to 16 GB (Default: 8GB)			
	Storage	128GB eMMC 5.1 Optional: Up to 1TB SATA SSD (M.2 B-Key 2242, mutually exclusive with 4G LTE)			
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 (M.2 B-Key 2230, mutually exclusive with SATA SSD)			
		15-inch TFT LCD	Contrast ratio: 800:1		
	Display	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 2.0b, up to 4K @60Hz	1 x DP 1.4, up to 4K @60Hz		
Media		10-point PCAP touch screen	Surface hardness: 6H		
		Surface treatment: Anti-fingerprint (AF)	Cover lens: IK07 rated		
	ТР	Optional: Anti-glare (AG)	Light transmittance ratio: > 85%		
		Touch input: Finger, stylus, gloves (conductive or ≤1mm thick non-conductive)			
	Audio	1 x 3.5mm Microphone jack	1 x 3.5mm 3-pole headphone jack		
	USB	2 x USB 2.0 Type-A	2 x USB 3.0 Type-A		
	Serial port	2 x RS232, DB9	1 x RS232/485/422, DB9		
I/O	CAN	Atom® x6425E: 1 x CAN Celeron®J6412: Optional 1 x CAN			
	GPIO	4 x GPIO (3.3V)			
	Antenna	RF0: Wi-Fi & Bluetooth antenna	RF1, RF2: 4G LTE antenna		
	SIM slot	1 x Micro SIM slot			
	RTC	Supported			
Miscellaneous	WDT	Supported			
	Security	Discrete TPM2.0			
	Button	1 x Power button			
System control	LED indicator	1 x Power indicator (Green: Normal operation; Red: Standby)			
	OS	Windows 10 IoT	Ubuntu 20.04		
Software	Display orientation	Landscape mode by default (Portrait mode sup	ported)		
	Input	12V~36V DC	1 x Power jack		
Power	Consumption	Typical: 21W	Max.: 31W		
	Dimensions	361.65mm x 285.65mm x 72.74mm			
	Installation	VESA mount (75mm x 75mm, M4 x 6mm)	Panel mount		
Mechanical	Weight	4.2kg			
Wieenanieai	IP rating	Front panel IP65			
	Heat dissipation	Fanless			
	Temperature	Operating: -20°C ~ +60°C	Storage: -30°C ~ +80°C		
Environment	Humidity		StorageSU C TOU C		
condition		10%-85% RH (Non-condensing)			
	Certification	FCC, CE	ESD: ±4KV (Contact); ±8KV (Air)		
Reliability	MTBF	50,000 hours			
	Warranty	2 years			

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Product Outlines



Ordering Information

Nomenclature

TPC150-EKT-P-OS-Add-on features



G: AG surface treatment; 4: 4G support; C: CAN connector; H: higher memory capacity + additional SSD Operating system: X-Windows IoT; U-Ubuntu

Processor: 6425E; J6412

Example Ordering No.	Memory	Storage	Add-on	Operating System	Processor
TPC150-EKT-6425E-X	8GB	128GB	/	Windows 10 IoT	
TPC150-EKT-6425E-X4	8GB	128GB	4G LTE	Windows 10 IoT	Intel [®] Atom [®] x6425E
TPC150-EKT-6425E-UGH	16GB	128GB	512GB SSD, AG treatment	Ubuntu 20.04	processor
TPC150-EKT-J6412-X	8GB	128GB	/	Windows 10 IoT	
TPC150-EKT-J6412-X4	8GB	128GB	4G LTE	Windows 10 IoT	Intel [®] Celeron [®] J6412
TPC150-EKT-J6412-UC	8GB	128GB	CAN connector	Ubuntu 20.04	processor
TPC150-EKT-J6412-UGH	16GB	128GB	512GB SSD, AG treatment	Ubuntu 20.04	

Packing list							
TPC150-EKT all-in-one panel PC	1	GPIO mating connector	1				
Wi-Fi & BT antenna	1	Mounting clamp	4				
CAN mating connector for x6425E processor	1	/	/				
Optional accessories							
19V 3.42A DC power adapter	1	AC power cable (US)	1				
4G LTE antenna for 4G version	2	CAN mating connector for J6412 with CAN version	1				

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