TPC215-RK88

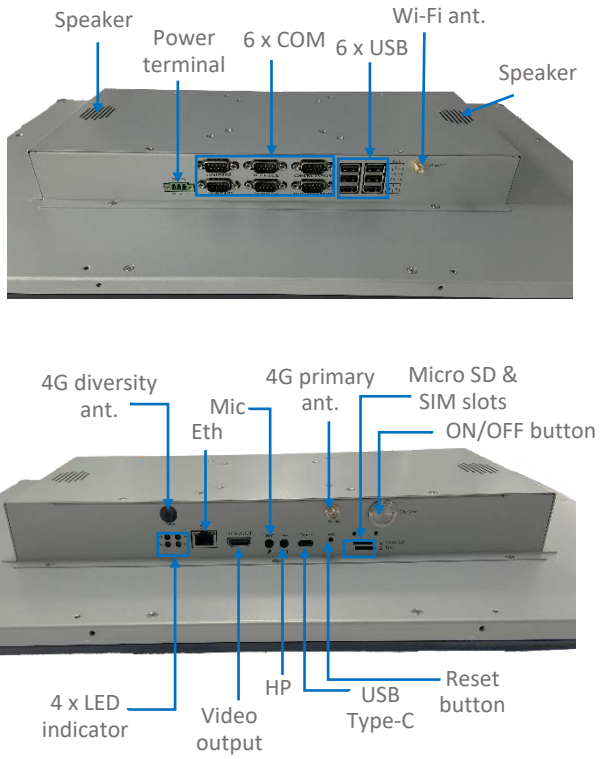
21.5” All-in-one Panel PC

Product Brief Introduction

Vantron TPC215-RK88 is a 21.5” open-frame all-in-one panel PC, powered by RK3288 quad-core high-performance processor. It features a 21.5-inch 10-point PCAP touchscreen monitor with 16:9 aspect ratio and runs Android 10 operating system. TPC215-RK88 offers rich interfaces for connection of different peripherals and displays. It is very suitable to be applied in self-service kiosks and multi-media terminals. The brackets and VESA holes also allow users to flush mount the product into any suitable openings for industrial control.

Vantron TPC series all-in-one panel PCs offers an overall solution that integrates the touchscreen monitor, display, processor, and software operating system, making it a first choice in IoT applications.

Exterior and Features

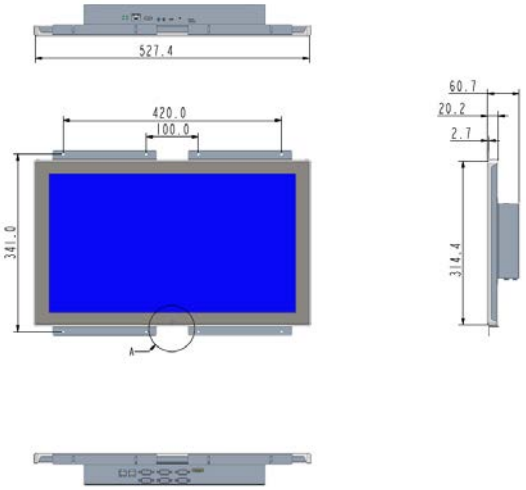


TPC215-RK88
RK3288 Quad-core Cortex-A17 high-performance processor
WIFI/BT/4G wireless communication access
21.5-inch TFT LCD, 16:9 aspect ratio, 500 nit
Low power, fanless heatsink
IP65 rated front panel
Anti-UV design to ensure reliability in sunlight exposure
VESA mount option available

TPC215-RK88 21.5” All-in-one Panel PC Datasheet

TPC215-RK88			
System	CPU	Rockchip RK3288, Quad-core ARM Cortex-A17, 1.6GHz (Max.)	
	Memory	2GB (Optional: 4GB)	
	Storage	16GB (Optional: 32GB) 1 x SD slot	
Communication	Ethernet	1 x RJ45, 10/100/1000Mbps	
	Wi-Fi & Bluetooth	Wi-Fi 802.11 b/g/n + BT 4.0	
	4G LTE	1 x Mini PCIe for connection of the 4G module	
Media	Display	21.5" TFT LCD	Contrast ratio: 1000:1
		Resolution: 1920 x 1080 @60Hz	Aspect ratio: 16:9
		Brightness: 500 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: Anti-glare & anti-reflection (optional)	Cover lens: At least IK03 rated
			Light transmittance ratio: >85%
	Audio	1 x 3.5mm combo audio jack Built-in dual-track speakers	
I/Os	USB	1 x USB 2.0 Type-C	6 x USB 2.0 Type-A
	Serial port	6 x RS485/RS232	
	RTC	Supported	
	WDT	Supported	
System control	Button	1 x ON/OFF button	
	LED indicator	1 x Power indicator	1 x 4G indicator
		1 x System indicator	1 x Wi-Fi indicator
Software	OS	Android 10	
	Device management platform	BlueSphere MDM	
	OTA tool	BlueSphere OTA	
Power	Input	12V DC	
	Consumption	~25W	
Mechanical	Dimensions	527.4mm x 314.4mm x 60.7mm	
	Installation	VESA mounting (75mm x 75mm) Side bracket mounting	
	Protective features	IP65, Anti-UV	
	Heat dissipation	Heatsink	
Environment Condition	Temperature	Operating: -20℃~+60℃ Storage: -20℃~+70℃	
	Certification	CCC, FCC	

Product Outlines



Ordering Information

Identifier	Memory	Storage	AG	AR
TPC215-RK88-LGR	2GB	16GB	YES	YES
TPC215-RK88-LG	2GB	16GB	YES	-
TPC215-RK88-L	2GB	16GB	-	-
TPC215-RK88-HGR	4GB	32GB	YES	YES
TPC215-RK88-HG	4GB	32GB	YES	-
TPC215-RK88-H	4GB	32GB	-	-

Packing List	
TPC215-RK88	1
Female DC power connector	1
Side mounting bracket	2
Wi-Fi & BT rubber rod antenna	1
4G LTE rubber rod antenna	2

Optional Accessories	
12V DC adapter	1
AC power cable (CN)	1
Wi-Fi & BT sucker antenna	1
4G LTE sucker antenna	2

Since 2002 established by two Silicon Valley entrepreneurs, Vantron Technology has been a pioneer in connected IoT devices and IoT platform solutions. Today, Vantron is serving customers all over the world, including many Global Fortune 500 companies. The product lines cover intelligent edge hardware, IoT communication devices, industrial displays and the cloud-based BlueSphere device management platform.

With more than 20 years of experience in R&D of embedded intelligent edge hardware like SOMs and motherboards, Vantron provides users with various ARM- or X86-based embedded solutions. Such solutions provide users with flexible options, from Linux to Windows, from embedded level to desktop level, from gateways to servers. In the meantime, we also offer system clipping, driver transplantation and other services for custom development.

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