

18.5" Android Panel PC with Rockchip RK3588/RK3568 Processor

Overview

Darveen APC-8185 is a 18.5-inch ARM-based Android Panel PC designed for industrial applications that demand high performance and multi-tasking capabilities. Powered by the powerful Rockchip RK3588 octa-core processor, it supports 8K video codec and delivers exceptional computing power for use cases such as manufacturing control systems, multimedia presentations, image recognition, and HMI optimization. The APC-8185 offers a rich set of I/O interfaces for seamless peripheral connectivity. It runs on Android 13 and is also available with Ubuntu Linux. For applications with lower power requirements, a configuration with the Rockchip RK3568 processor is also offered.

Features

- 18.5" LED backlight, multi touch capacitive touchscreen
- Rugged aluminum enclosure and fanless design
- Rich I/O interfaces for versatile connectivity
- Wi-Fi 6/ Wi-Fi 5, 4G/5G expansion
- Supports Android and Ubuntu Linux OS
- Supports VESA 100 mount and panel mount
- IP65 compliant front panel











IP65

Touch Display



I/O Interfaces

Operating Temp. Android





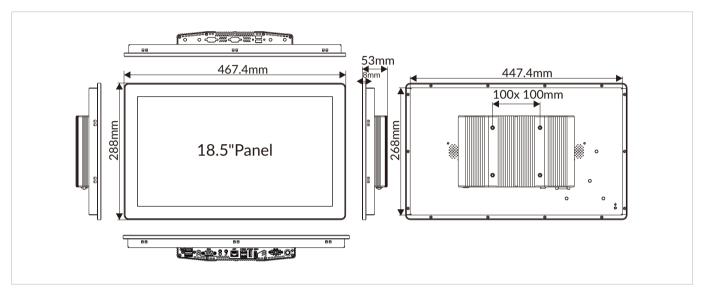
Specifications

Display			
Size	18.5 inch		
Touch Type	Projected capacitive multi touch		
Transmittance	87% (capacitive)		
Control Interface	USB		
Surface Hardness	≥7H		
Resolution	1920 x 1080		
Luminance	300 nits		
Contrast Ratio	1000: 1		
View Angles	85 (left), 85 (right), 85 (up), 85 (down)		
LED Lifetime	30,000 hrs		
Color	16.7M		
System			
6011	Rockchip RK3568 Quad-core Cortex-A55 up	RK3588 quad core Cortex-A76, 2.4GHz and quad	
CPU	to 2.0GHz	core Cortex-A55, 1.7GHz processors, NPU 6 TOPS	
Chipset	ARM Mali-G52 GPU	ARM Mali-G610 MP4	
Memory	DDR4 4G (onboard)	DDR4 8GB (onboard)	
Storage	EMMC 32G (onboard)	EMMC 64G (onboard)	
I/O Ports	· ·		
	1x USB 3.0 (support OTG)	2x USB 3.0 (One supports OTG)	
USB	4x USB 2.0	2x USB 2.0 (Optional)	
Serial	1x COM (COM1 supports RS-232)	1x COM (COM1 supports RS-232)	
Ethernet	1x GbE LAN	2x GbE LAN	
Display	1x HDMI out	1x HDMI out,1x HDMI in	
TF Card Slot	/	1x TF Card Slot	
Antenna	2x SMA antenna holes		
RF Communication			
Wi-Fi	onboard Wi-Fi 5	onboard Wi-Fi 6	
Cellular	4G/5G (Optional)		
Bluetooth	V4.1	V5.3	
Audio		, , , , ,	
Audio	Mic in, line out		
Speaker	2x speaker		
Power			
Button	Yes		
DC Input	12V		
Power Consumption	12V 19W		
Power Adaptor	AC-DC, 12V@5A, 60W		
Operating System	710 00, 1216371, 0011		
Linux	Ubuntu		
Android	Android 11	Android 13	
Mechanical	/ tital old 11	7 Hidiota 10	
Dimensions (W x D x H)	467 4 x 288 x 53 mm (18 4 x 11 34 x 2 1 inch	nes)	
Weight (N.W.)	467.4 x 288 x 53 mm (18.4 x 11.34 x 2.1 inches) 5.2 kg (11.46 lbs)		
Mounting	Panel mount, wall mount bracket VESA 100		
Material	Aluminum alloy panel, all-metal chassis		
Environment	Auminum andy parier, an-metal chassis		
Operating Temperature	10 to 50°C (14 to 122°E)		
	-10 to 50°C (14 to 122°F)		
Storage Temperature	-20 to 60°C (-4 to 140°F)		
Relative Humidity	10% to 95% @ 40°C (104°F), non-condensing		
Vibration	5-500Hz, 0.026 G ² /Hz, 2.16 Grms, X, Y, Z, 1 hour per axis		
IP Rating	IP65 compliant front panel		

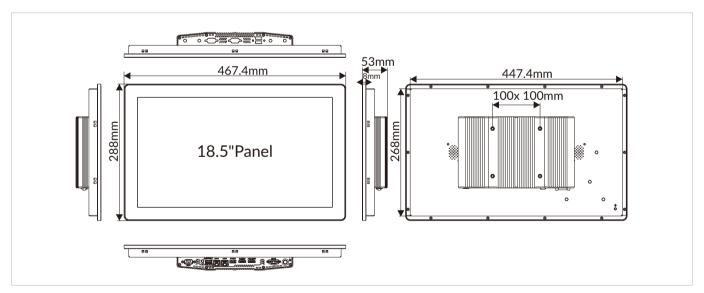


Certification	Certification	
EMC	CE, FCC	
Packing List		
	1x APC-8185	
Packing	10x panel mounting buckles	
	1x warranty card	

APC-8185 - RK3568 Dimensions



APC-8185 - RK3588 Dimensions



Ordering Information

Part Number	Description	
APC-8185-RK3568	18.5" LCD, P-CAP Touch, Rockchip RK3568, 4G+32G, WiFi, DC 12V input, Phoenix 2P TB	
APC-8185-RK3588	18.5" LCD, P-CAP Touch, Rockchip RK3588, 8G+64G, WiFi6, DC 12V input, Phoenix 2P TB	