

# APC-8185

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18.5" Android Panel PC with Rockchip RK3588/RK3568 Processor

## Overview

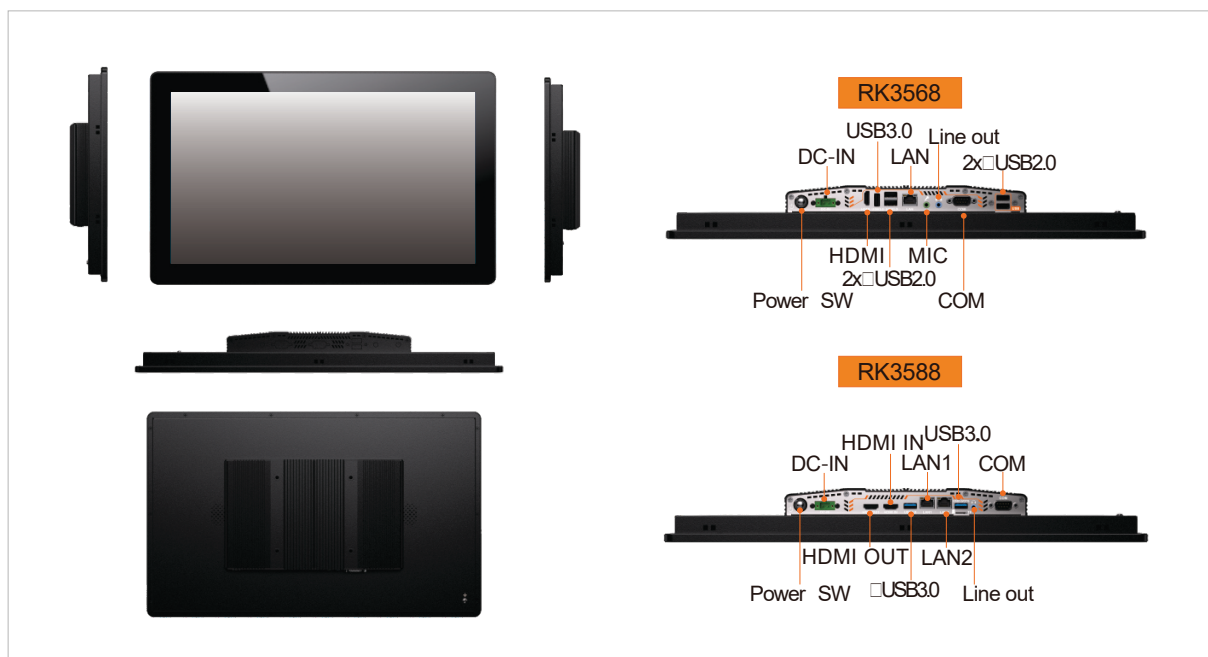
Darveen APC-8185 is a 18.5-inch ARM-based Android Panel PC designed for industrial applications that demand high performance and multi-tasking capabilities. Powered by the powerful Rockchip RK3588 octa-core processor, it supports 8K video codec and delivers exceptional computing power for use cases such 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 VESA100 mount and panel mount
- IP65 compliant front panel



## I/O Interfaces



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## Specifications

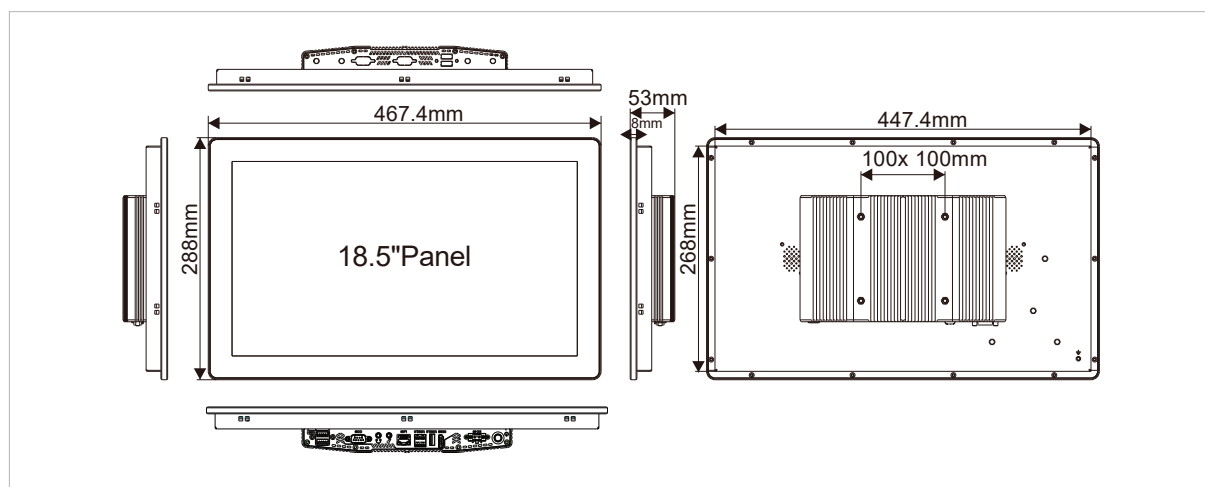
|                        |                                                                        |                                                                                             |
|------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 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                 |                                                                        |                                                                                             |
| CPU                    | Rockchip RK3568 Quad-core Cortex-A55 up to 2.0GHz                      | RK3588 quad core Cortex-A76, 2.4GHz and quad 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              |                                                                        |                                                                                             |
| USB                    | 1x USB 3.0 (support OTG)<br>4x USB 2.0                                 | 2x USB 3.0 (One supports OTG)<br>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                  |                                                                        |                                                                                             |
| Build                  | Yes                                                                    |                                                                                             |
| DC Input               | 12V                                                                    |                                                                                             |
| Power Consumption      | 19W                                                                    |                                                                                             |
| Power Adaptor          | AC-DC, 12V@5A, 60W                                                     |                                                                                             |
| Operating System       |                                                                        |                                                                                             |
| Linux                  | Ubuntu                                                                 |                                                                                             |
| Android                | Android 11                                                             | Android 13                                                                                  |
| Mechanical             |                                                                        |                                                                                             |
| Dimensions (W x D x H) | 467.4 x 288 x 53 mm (18.4 x 11.34 x 2.1 inches)                        |                                                                                             |
| Weight (N.W.)          | 5.2 kg (11.46 lbs)                                                     |                                                                                             |
| Mounting               | Panel mount, wall mount bracket VESA100                                |                                                                                             |
| Material               | Aluminum alloy panel, all-metal chassis                                |                                                                                             |
| Environment            |                                                                        |                                                                                             |
| Operating Temperature  | -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 <sup>2</sup> /Hz, 2.16 Grms, X, Y, Z, 1 hour per axis |                                                                                             |
| IP Rating              | IP65 compliant front panel                                             |                                                                                             |

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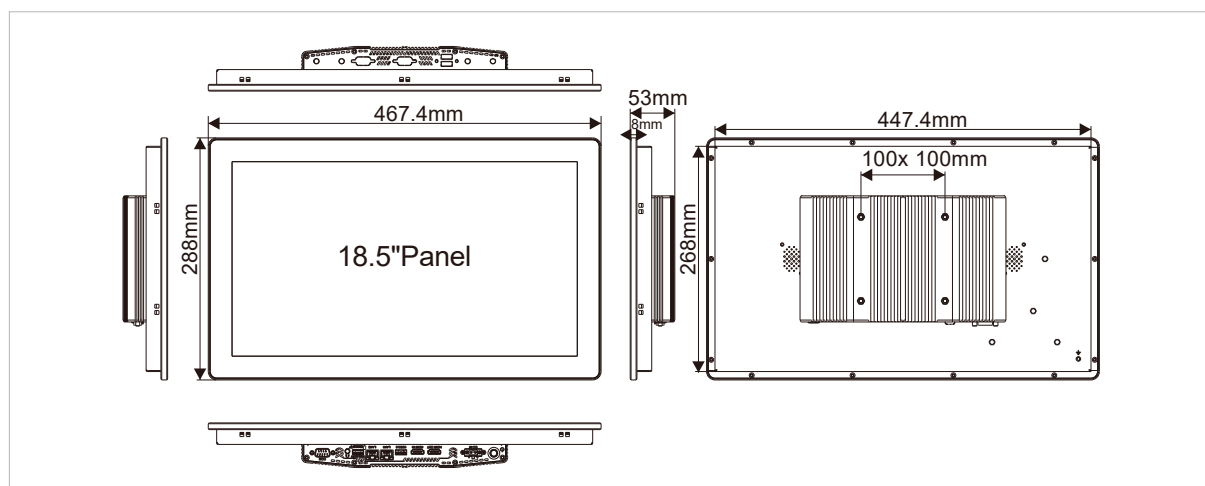
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|               |                                                               |
|---------------|---------------------------------------------------------------|
| Certification |                                                               |
| EMC           | CE, FCC                                                       |
| Packing List  |                                                               |
| Packing       | 1x APC-8185<br>10x panel mounting buckles<br>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 |

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