



Fanless Android Panel PC

32" Embedded CPU

OVPPC-320-A55

The device employs a self-developed industrial motherboard with a built-in independent NPU, delivering 1 TOPS of AI computing power and supporting lightweight AI application development. The unit features a sleek 2.5mm low-profile narrow bezel panel design, specifically tailored for cabinet-mounted equipment, allowing for seamless flush-mounted installation where the panel sits level with the cabinet. It boasts an IP65-rated flat front panel combined with an aluminum alloy die-cast housing, ensuring effective heat dissipation and robust protection.

## Features

- Narrow bezel design, built for flush-mounted applications
- Supports wide temperature and wide voltage operation.
- Self-developed ARM architecture industrial motherboard
- RK3568, 4-core 64-bit Cortex-A55, 2.0GHz main frequency
- Built-in independent NPU with 1TOPS AI computing power
- Industrial-grade EMC/ESD/Vibration Resistance Protection



## Model

|                  |                |
|------------------|----------------|
| Product size     | 32"            |
| Non-touch        | OVPPC-320G-A55 |
| Capacitive touch | OVPPC-320C-A55 |
| Resistive touch  | OVPPC-320R-A55 |

## I/O Interface



## Specification

### Screen Parameter

|                    |                       |
|--------------------|-----------------------|
| Display type       | 32" TFT LCD screen    |
| MAX.resolution     | 1920*1080 (16:9)      |
| Viewing angle(H/V) | 89/89/89/89 (L/R/U/D) |
| Luminance (cd/m²)  | 250~300 cd/m²         |
| Contrast ratio     | 1000:1                |

### Touch Parameter

|                    |                                                  |                              |           |
|--------------------|--------------------------------------------------|------------------------------|-----------|
| Touchscreen        | Projection capacitive touch 10-point multi touch | Resistive touch single point | Non-touch |
| Light transmission | ≥88%                                             | ≥78%                         | ≥92%      |
| Controller         | USB ( COM customized)                            | USB ( COM customized)        | /         |

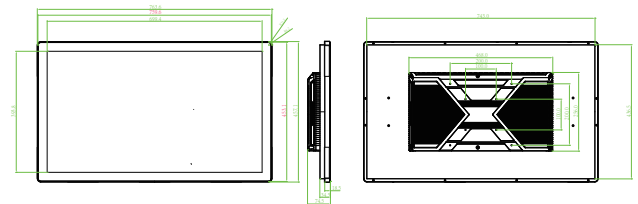
### Power Parameter

|             |         |
|-------------|---------|
| Power input | AC 220V |
|-------------|---------|

### Configuration

|                  |                                                          |                     |                             |
|------------------|----------------------------------------------------------|---------------------|-----------------------------|
| CPU              | RK3568, Quad-Core/4-Wire 2.0GHz CPU                      | Wi-Fi               | Wi-Fi 6, dual-band 2.4G/5G. |
| Memory/RAM       | 2GB (Optional 4GB/8GB)                                   | Bluetooth           | BT5.3                       |
| Storage          | 32GB eMMC (Optional 64GB/128GB/256GB)                    | Watchdog Timer      | Support                     |
| NPU              | Built-in NPU with 1TOPS AI computing power               | RTC real time clock | Support                     |
| Operating system | Android12/14, Linux5.10/Ubuntu20.04/Ubuntu22.04/Debian11 | Timer switch        | Support                     |

## Dimension



### Physical Characteristic

|                    |                                                                                   |
|--------------------|-----------------------------------------------------------------------------------|
| Overall dimensions | W763.6x H457.1x D74.5mm                                                           |
| Installation size  | W760.6 x H454.1mm                                                                 |
| Material           | Aluminum alloy                                                                    |
| Color              | Black, optional silve                                                             |
| Installation       | Support Embedded installation with iron sheet/<br>Back-mounted Installation, etc. |

### Interface Parameter

|                  |                                                           |
|------------------|-----------------------------------------------------------|
| PowerSW          | 1*PowerSW                                                 |
| Power Connector  | AC three-prong socket, AC 100-240V, with toggle switch    |
| Phoenix terminal | 1*12P Phoenix terminal (232*1/485*1/CAN*1/NC*4)           |
| USB              | 4*USB (2*USB3.0, 2*USB2.0)                                |
| TF               | 1*TF card standard interface                              |
| SIM              | 1*SIM card slot (should be work with 3G/4G module)        |
| HDMI             | 1*HDMI output, up to 4K                                   |
| Ethernet         | 1*LAN, 10M/100M/1000M adaptive Ethernet, 3G/4G customized |
| Audio            | 1*Audio I/O, Support audio input and output               |
| Serial port      | 1*DB9 RS-232 serial port (RS-232/TTL switchable)          |
| UBOOT            | 1*UBOOT                                                   |
| Wi-Fi antenna    | 1*Wi-Fi antenna                                           |
| Speaker          | 2*(8Ω2W)                                                  |
| Grounding        | 1*GND                                                     |

### Reliability Parameter

|                       |                                           |
|-----------------------|-------------------------------------------|
| Operating temperature | -10°C~60°C (-20°C~70°C can be customized) |
| Storage temperature   | -20°C~70°C                                |
| Relative humidity     | 95% non-condensing                        |