

# TPC173-A210-3399

Adopting ultra-thin bezel which is more suitable for embedded installation, aluminum alloy structure, fanless and fully enclosed design, up to IP65 dustproof and waterproof, widely used in industrial control, military, power, intelligent self-service terminal equipment and other automation applications. Widely used in industrial control, military, communication, electric power, intelligent self-service terminal equipment and other automation applications.

## Features

- 3mm Super Thin Front Bezel, Best for Embedded Cabinet.
- Pure flat panel IP65 dust-proof and waterproof.
- Self-developed ARM architecture industrial motherboard
- Comply with EMC anti-electromagnetic interference standard
- Industrial-grade protection, Suitable for various environments
- Provide SDK package and support secondary development



## Product Model

|                  |                  |
|------------------|------------------|
| Product Size     | 17.3"            |
| Non-touch        | TPC173-A200-3399 |
| Capacitive touch | TPC173-A210-3399 |
| Resistive touch  | TPC173-A220-3399 |

## Product Interface



## Product Specifications

### Screen Parameters

|                |                       |
|----------------|-----------------------|
| LCD size       | 17.3" TFT LCD         |
| Resolution     | 1920*1080 (16:9)      |
| Viewing angle  | 80/80/60/80 (L/R/U/D) |
| Color          | 16.7M                 |
| Brightness     | 300 cd/m <sup>2</sup> |
| Contrast ratio | 600:1                 |

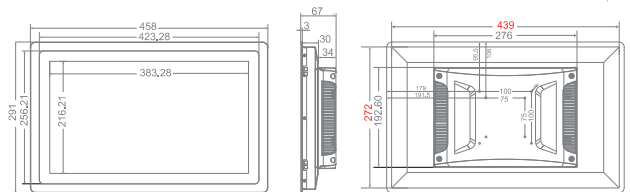
### Touch Parameters

|                          |  |   |           |
|--------------------------|--|---|-----------|
| Touch type               | 10-point touch projection<br>Capacitive touch screen | Single-point<br>Resistance touch screen | Non-touch |
| Transmittance            | ≥88%   | ≥78%                                    | ≥92%      |
| Input mode               | Handwriting or<br>Capacitance pen                    | Fingertip or stylus                     | /         |
| Controller communication | USB  | USB                                     | /         |

### Hardware Configuration

|         |   |                  |   |
|---------|---|------------------|---|
| CPU     | RK3399 2.0 GHz, Dual-Core Cortex-A72 + Quad-Core Cortex-A53 | WiFi             | Dual-band 2.4G/5G                                 |
| Memory  | 4GB DDR3 (Supports up to 4GB)                               | Bluetooth        | Support Bluetooth 5.0                             |
| Storage | 64GB eMMC (Supports up to 256GB)                            | Operating system | Android 7.1.9/0/11, Linux4.4/ubuntu18.04/debian10 |
| GPU     | Mali-T860 MP4   | Other            | Support RTC real-time clock and timing switch     |

## Product Size



### Physical Characteristics

|                    |                   |
|--------------------|-------------------|
| Overall dimensions | W458x H291x D67mm |
| Size of opening    | W441x H274mm      |

### Interface Parameters

|                      |  |
|----------------------|--|
| Power interface      | 1*DC (5.5*2.1mm), Supporting 12V-36V power input                   |
| Industrial terminals | 1*12P Phoenix terminal (Power supply/RS232*1/RS485*1/ITL*1/GPIO*3) |
| USB                  | 2*USB (1*USB3.0, 1*OTG)  |
| TF                   | 1*TF card standard interface                                       |
| HDMI                 | 1*HDMI, Supporting HDMI data output, Up to 4K                      |
| SIM                  | 1*SIM, Supporting various formats (Depending on 3G/4G module)      |
| Network interface    | 1*LAN, 10M/100M/1000M adaptive Ethernet                            |
| Audio interface      | 1*Audio I/O, Support audio input and output                        |
| COM                  | 1*RS232  |
| Reset key            | Support (1*UBOOT)  |
| WiFi antenna         | 1*WiFi antenna   |
| Grounding post       | 1*Grounding post (GND)   |

### Product Reliability Parameters

|                       |  |
|-----------------------|--|
| Working temperature   | -10°C~60°C                                       |
| Storage temperature   | -20°C~70°C                                       |
| Relative humidity     | Humidity: 95% Non-Condensing                     |
| Vibration protection  | IEC 60068-2-64, Random, 5~500 Hz, 1 hr/axis      |
| Impact protection     | IEC 60068-2-27, Half sine wave, Lasting for 11ms |
| Product certification | CCC/CE/FCC/EMC/CB/ROHS                           |
| Waterproof grade      | The front panel reaches IP65 protection level    |

### Power Parameters

|              |            |
|--------------|------------|
| Power input  | DC 12V-36V |
| Static power | 18W        |