

Powerful. Beautiful.  
**Excellence · Innovation**

PI21190  
PI22190  
PI24190



**Shanghai Panelmate Electronics Co., Ltd.**

19" SXGA Raspberry Panel PC



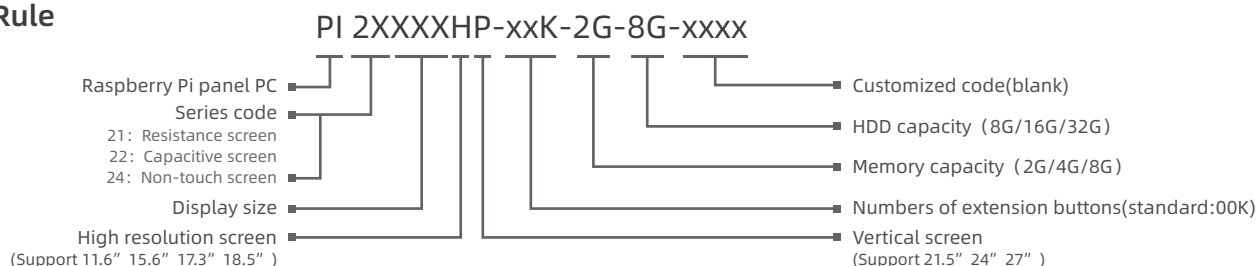
# PI21190 & PI22190 & PI24190



## Features

- Display type: 10.1", 10.4", 11.6", 12.1", 12.2", 15", 15.6", 17", 17.3", 18.5", 19", 21.5", 24", 27"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

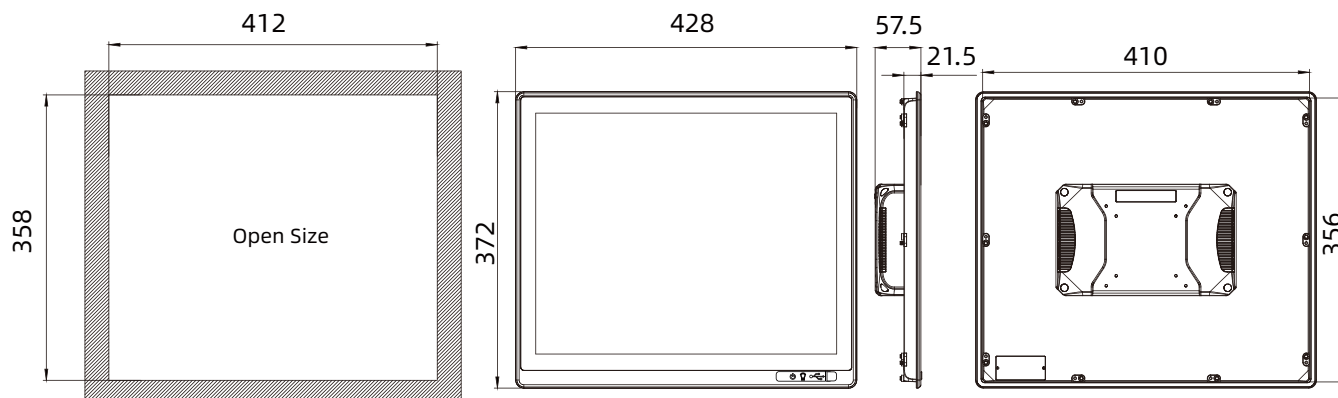
## Namely Rule



## Specifications

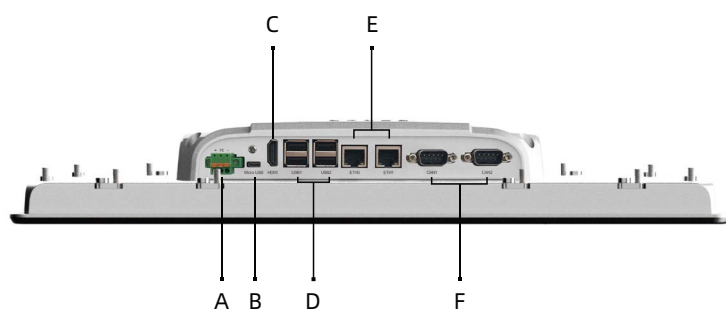
| Model       |                        | PI21190&PI22190&PI24190                                                                        |
|-------------|------------------------|------------------------------------------------------------------------------------------------|
| Processor   | CPU                    | Broadcom BCM2711 1.5 GHz, 64-bit, 4 cores, ARM Cortex-A72                                      |
|             | Memory                 | 2G (Default) / 4G/8G                                                                           |
|             | Storage                | 8G eMMC (Default) / 16G/32G eMMC                                                               |
| I/O         | LAN                    | 1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI                                                |
|             | USB                    | 1 x Micro USB, 4 x USB 2.0                                                                     |
|             | CAN                    | 2 x CAN                                                                                        |
|             | Display Port           | HDMI                                                                                           |
| Power       | Input Voltage          | DC 24V                                                                                         |
|             | Power                  | 24W                                                                                            |
| Physical    | Dimension (WxHxD/mm)   | 428 x 372 x 57.5 (16.85" x 14.65" x 2.26")                                                     |
|             | Open Size (WxH/mm)     | 412 x 358 (16.22" x 14.09")                                                                    |
|             | Net Weight(kg)         | 5.1kg                                                                                          |
|             | Mounting               | Embedded, Wall-mounted, Desktop, VESA                                                          |
| LCD         | Display Type           | 19" SXGA TFT                                                                                   |
|             | Resolution             | 1280 x 1024                                                                                    |
|             | Colors                 | 16.7M                                                                                          |
|             | Active Area (WxH/mm)   | 376.32 x 301.06 (14.82" x 11.85")                                                              |
|             | Backlight              | LED                                                                                            |
|             | MTBF (hour)            | 30000hrs                                                                                       |
|             | Pixel Pitch (HxV)      | 0.294 x 0.294                                                                                  |
|             | Luminance(cd/m2)       | 250cd/m2                                                                                       |
|             | Contrast Ratio         | 1000:1                                                                                         |
|             | Viewing Angle          | (L)85 / (R)85 / (U)80 / (D)80                                                                  |
| Touchscreen | Touch Type             | Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen     |
|             | Light Transmission     | >85%                                                                                           |
|             | Controller             | USB interface                                                                                  |
|             | Driver Support         | Ubuntu, Ubuntu Mate                                                                            |
|             | Multi-touch            | 10 points (LINUX)                                                                              |
|             | Surface Hardness       | Resistive touchscreen: Mohs' Number >= 3H; Capacitive touchscreen: Mohs' Number 7H             |
| Environment | Operating Temperature  | 0 ~ 50°C                                                                                       |
|             | Storage Temperature    | -20 ~ 60°C                                                                                     |
|             | Relative Humidity      | 5~95% (Non condensation)                                                                       |
|             | Shock                  | Operating 10G peak acceleration(11 ms duration), follow IEC 60068-2-27                         |
|             | Vibration              | Operating Random Vibration Test 5~500Hz, 1Grms@with HDD; 2Grms@with SSD, follow IEC 60068-2-64 |
|             | EMC                    | CE/FCC Class A                                                                                 |
|             | Front Panel Protection | IP65                                                                                           |

## Technical Drawings unit: mm



Panel Cutout Dimensions: 412 x 358mm (16.22 x 14.09in)

## External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

## Ordering Information

| Part Number | Description                                                                                                                    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| PI21190     | 19" TFT LCD / Resistive touch screen / DC 24V / Resolution 1280 x 1024 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB  |
| PI22190     | 19" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1280 x 1024 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB |
| PI24190     | 19" TFT LCD / Non-touch screen / DC 24V / Resolution 1280 x 1024 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB        |

## Packing List

|          |                            |
|----------|----------------------------|
| Terminal | 3pin spring clamp terminal |
|----------|----------------------------|

Note: Package contents are subject to change without prior notice