

# R19IP7T-PPM1

19" Intel® Pentium® N4200 PP Series HMI Panel PC



CE

FC

## KEY FEATURES

- 19", 1280 x 1024 resolution with PCAP touchscreen
- Intel® Pentium® Apollo Lake N4200, 1.10 GHz
- Fanless cooling system and ultra-low power power consumption
- Front IP65 water and dust proof
- Aluminum housing and fanless design
- Room booking schedule, access control, room information display

## INTRODUCTION

Winmate PP Series HMI offers a sleek and modern solution for industrial automation and control applications, featuring sizes from 7" to 27" with optional high-brightness displays up to 1000 nits for enhanced visibility. Designed with a flat, slim aluminum housing, these fanless HMI Panel PCs include a PCAP multi-touch screen, multiple I/O interfaces, and support for DP/HDMI/LVDS/eDP. The front IP65-rated water and dust protection ensure durability in harsh environments, making them ideal for industrial control, room scheduling, and interactive displays.

## SPECIFICATIONS

### Display

|                |                                         |                  |                  |
|----------------|-----------------------------------------|------------------|------------------|
| Resolution     | 1280x1024                               | Size             | 19.0 inches      |
| Contrast Ratio | 1000:1                                  | Panel Brightness | 250.0 nits       |
| View Angles    | 85,85,80,80                             | Active Area      | 376.32x301.06 mm |
| Touch / Glass  | Projected Capacitive Multi Touch Screen |                  |                  |

### System Specification

|           |                                                                                                                                               |                     |                                                                                |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------|
| Processor | Intel Pentium N4200 1.1GHz (up to 2.5GHz)                                                                                                     | Memory              | Dual-channel (non-ECC) SO-DIMM RAM.Up to 16GB                                  |
| Storage   | 128GB SSD(Default) (Default)<br>256GB SSD (Optional)<br>512GB SSD (Optional)<br>1TB<br>2 x SATA III for 2.5" SSD/HDD(Supprt RAID0) (Optional) | Ethernet controller | 2 x Intel® Ethernet Controller                                                 |
| Security  | TPM 2.0                                                                                                                                       | Operating System    | Windows 10 IoT Enterprise (64 bit) (Optional)<br>Linux Ubuntu 20.04 (Optional) |
| WLAN      | Support (Optional)                                                                                                                            | BT                  | Support (Optional)                                                             |

### Mechanical

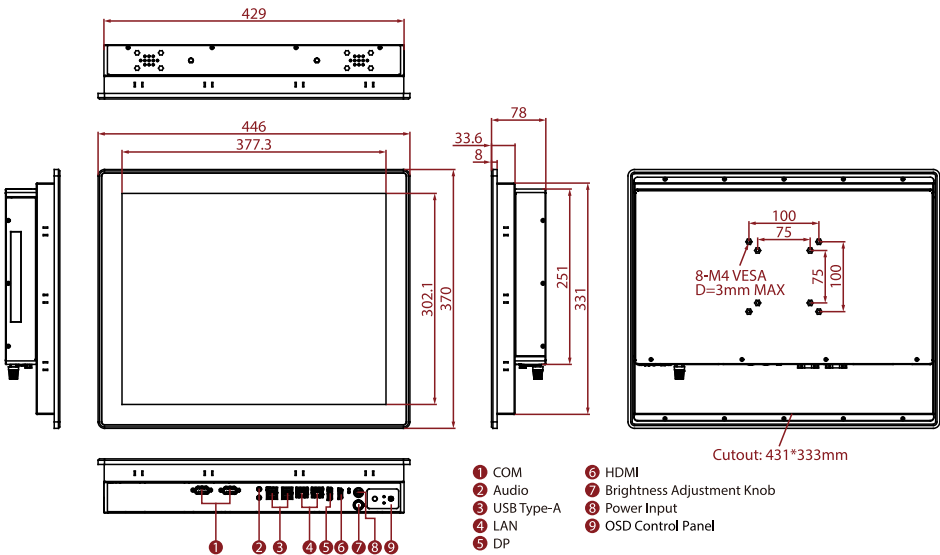
|                |                                                |           |               |
|----------------|------------------------------------------------|-----------|---------------|
| Dimension      | 446 x 370 x 78 mm                              | Weight    | 6.9 kg        |
| Mounting       | Panel mount (Default)<br>VESA mount (Optional) | Enclosure | Metal Housing |
| Cooling System | Fanless Design                                 | Cut out   | 431 x 333 mm  |

### Environment

|                    |                               |                       |             |
|--------------------|-------------------------------|-----------------------|-------------|
| Operating Humidity | 10% to 90% RH, Non-Condensing | Operating Temperature | 0°C to 50°C |
|--------------------|-------------------------------|-----------------------|-------------|

|                      |                                                                          |                |                                                                                                                    |
|----------------------|--------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------|
| Storage Temperature  | -10°C to 60°C                                                            | IP rating      | Front IP65                                                                                                         |
| <b>Certification</b> |                                                                          |                |                                                                                                                    |
| Certification        | CE, FCC                                                                  |                |                                                                                                                    |
| <b>IO Ports</b>      |                                                                          |                |                                                                                                                    |
| Power Input          | 1 x 12V DC, Din4 pin connector                                           | USB Port       | 4 x USB3.2 Gen1x1 (Type-A)                                                                                         |
| Serial Port          | 1 x RS232/422/485 (Default RS232)<br>1 x RS232                           | Video          | 1 x DP1.2 (Default)<br>1 x HDMI 1.4 (Optional)<br>1 x VGA (Optional)                                               |
| Audio                | 1 x Mic in<br>1 x Line out<br>2 x Speaker                                | Expansion Port | 1 x M.2 2242 B-key Slot (for SATA III SSD)<br>1 x M.2 2230 E-Key Slot (for Wi-Fi module)<br>1 x PCIe 2.0 (x1) slot |
| LAN                  | 2 x Giga LAN RJ45 Connector                                              | Indicator      | 1 x LED Indicator for power<br>1 x LED Indicator for storage                                                       |
| Brightness Knob      | 1 x Brightness Adjustment Knob                                           |                |                                                                                                                    |
| <b>Control</b>       |                                                                          |                |                                                                                                                    |
| Button               | 1 x Power Button<br>1 x Reset Button                                     |                |                                                                                                                    |
| <b>Accessory</b>     |                                                                          |                |                                                                                                                    |
| Accessory            | 100~240V AC to DC Adapter<br>Power Cord<br>VESA screws<br>Mounting clips |                |                                                                                                                    |
| <b>Power</b>         |                                                                          |                |                                                                                                                    |
| Power Rating         | 12V DC                                                                   | Adapter        | 12V 84W                                                                                                            |

### DIMENSIONS UNIT:MM



### NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.
3. All specifications are subject to change without prior notice.