

R15IP7T-PPC3

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



CE

FC

KEY FEATURES

- 15", 1024 x 768, 300 nits
- Projected capacitive multi-touch screen
- 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	1024x768	Size	15.0 inches
Contrast Ratio	2000:1	Panel Brightness	300.0 nits
View Angles	88,88,88,88	Active Area	304.1x228.1 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) 256GB SSD (Optional) 512GB SSD (Optional) 1TB 2 x SATA III for 2.5" SSD/HDD(Supprt RAID) (Optional)	Ethernet controller	2 x Intel® Ethernet Controller
Security	TPM 2.0	Operating System	Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 20.04 (Optional)
WLAN	Support (Optional)	BT	Support (Optional)

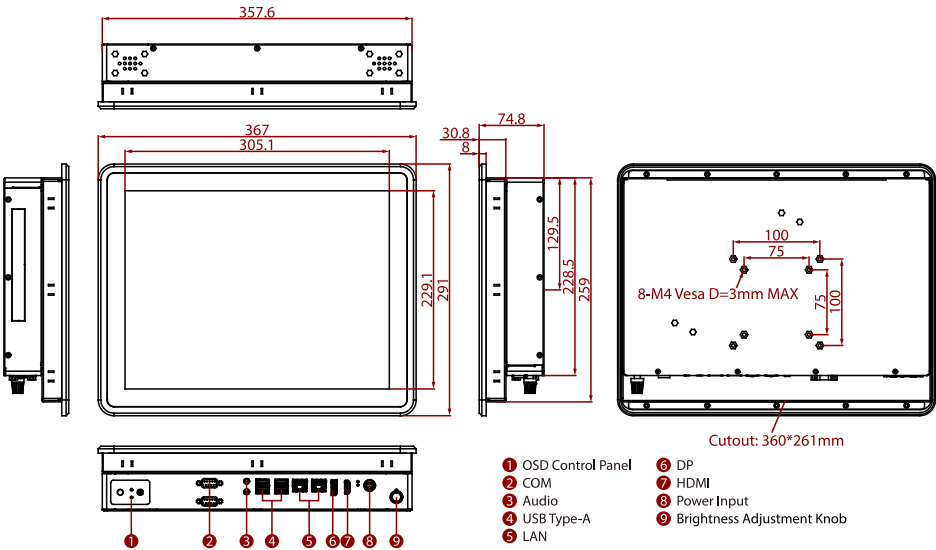
Mechanical

Dimension	367 x 291 x 74.8 mm	Weight	4.2 kg
Mounting	Panel mount (Default) VESA mount (Optional)	Enclosure	Metal Housing
Cooling System	Fanless Design	Cut out	360 x 261 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
Certification			
Certification	CE, FCC		
IO Ports			
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) 1 x RS232	Video	1 x DP1.2 (Default) 1 x HDMI 1.4 (Optional) 1 x VGA (Optional)
Audio	1 x Mic in 1 x Line out 2 x Speaker	Expansion Port	1 x M.2 2242 B-key Slot (for SATA III SSD) 1 x M.2 2230 E-Key Slot (for Wi-Fi module) 1 x PCIe 2.0 (x1) slot
LAN	2 x Giga LAN RJ45 Connector	Indicator	1 x LED Indicator for power 1 x LED Indicator for storage
Brightness Knob	1 x Brightness Adjustment Knob		
Control			
Button	1 x Power Button 1 x Reset Button		
Accessory			
Accessory	100~240V AC to DC Adapter Power Cord VESA screws Mounting clips		
Power			
Power Rating	12V DC	Adapter	12V 50W

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.