

# TP-3445-22

## 21.5" Panel Mount Computer



### Key Highlights

- 21.5" Resistive or Pcap Touchscreen
- Intel Apollo Lake N4200 Quad Core CPU
- Die-cast Aluminum Housing
- Optional High Bright & Optical Bonding
- Fanless Cooling System

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The TP-3445-22 [Panel PC](#) has a 21.5 inch HD touchscreen display. This computer is housed in die-cast aluminum and has an IP66 waterproof rated front bezel. It runs on an Intel Quad Core CPU and has 9~36VDC wide range power input. The TP-3445-22 has various configuration options, so you can create the perfect solution for your manufacturing facility or assembly line. There are several different expansion boards for this unit that can add options including Mini-PCIe, SIM, USB and COM. This computer also supports an optional internal backup battery, Pcap or resistive touch, and a high bright LCD. The TP-3445-22 is built to last in harsh environments.

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# Technical Specifications

## Primary Components

Processor Family	Intel Pentium Apollo Lake
Processor Model	N4200
Processor Speed	1.10 GHz
Memory Type	Onboard DDR3
Memory Support	4GB, 8GB
Storage Type	1x 2.5" SATA Drive Bay for SSD/HDD
Storage Support	32GB-1TB

## Power

Input Voltage Range	9-36V DC
Standard Power Adapter	Optional 12V AC/DC Adapter

## Battery

Battery Type	Optional Internal Battery
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## Operating Systems

Windows	Windows 10 IoT, Windows 10 Pro
Linux	Linux (Contact your sales rep for more information)

## Expansion Slots

SD card	1x Micro SD Slot
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## Enclosure

Material	Aluminum
IP Rating	IP66 Front Bezel
Mounting Options	Panel Mount, VESA 100 Mount

## Weight / Dimensions

Weight	7.5 kg (16.5 lbs)
Dimensions	557 x 64.8 x 362 mm (21.9 x 2.6 x 14.3 in)

## Certification

Certifications	CE, FCC Class A, UL 60950, UL 62368
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*Specifications subject to change.*

## Display

Screen Size	21.5
Screen Resolution	1920 x 1080 (Full HD)
Screen Ratio	16:9
Brightness	250 nits, Optional 1000 nit High Brightness

## Touch Screen

Touch Screen	Projected Capacitive, Resistive
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## External I/O Ports

USB	2x USB 3.0
Serial / Com	2x COM
Serial Protocol Detail	1x RS-232/422/485 DB-9, default RS-232(COM1), 1x RS-232 DB-9(COM2)
Ethernet / LAN	2x RJ45 GbE LAN
Video Outputs	1x HDMI
Other Ports	1x 2-Pin DC Power Switch Connector
Audio Ports	1x Audio Line-Out
Power Input Port	3-Pin DC-In (Phoenix Type), Optional POE++, 45W with 2x USB 2.0

## Thermal & Environmental

Operating Temperature	0°C - 50°C (32°F - 122°F)
Storage Temperature	-30°C - 70°C (-22°F - 158°F)
Cooling Solution	Passive - Fanless with Heatsink
Humidity Range	10% - 90% Non-condensing

## Peripherals & Wireless Connectivity

WiFi	Optional WiFi
Bluetooth	Optional Bluetooth 4.0
Mobile Network 4G LTE	Optional 4G

## Warranty

Warranty	Up to 5 Years
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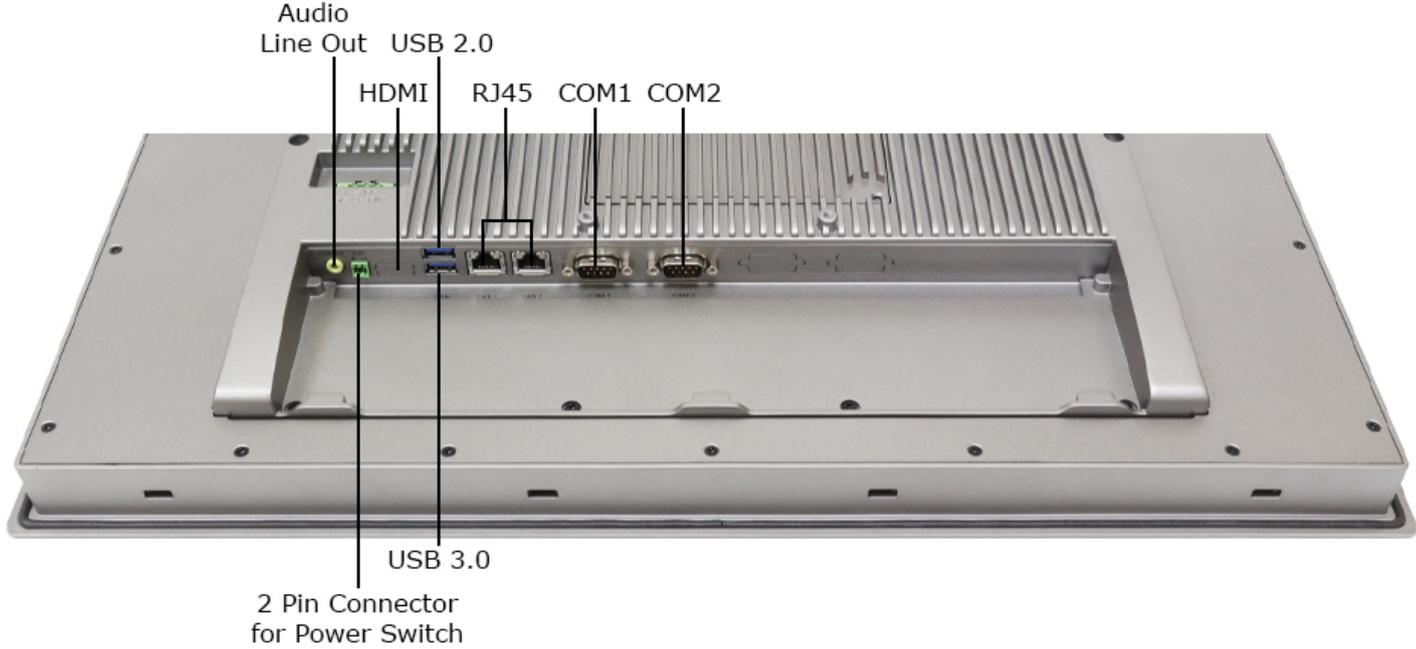
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# I/O Diagram Images



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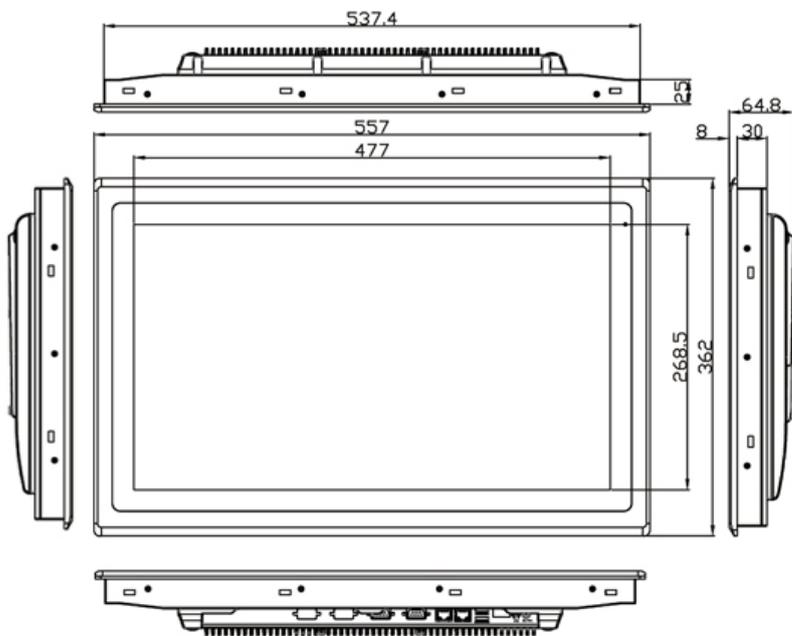
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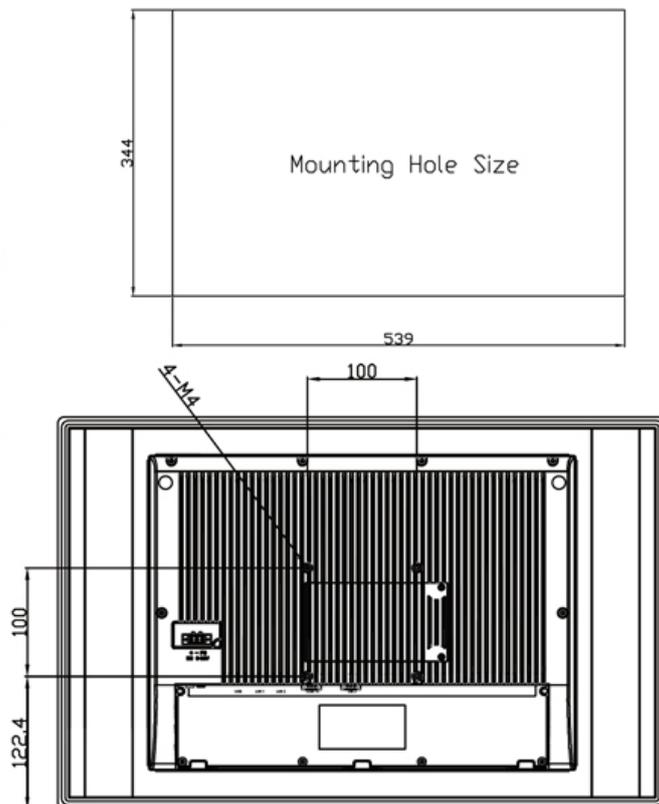
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# Tech Diagram Images



UNIT: mm  
Tolerance:  $\pm 0.5$



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