

# TP-5645-15

## 15" Panel Mount Computer



### Key Highlights

- Intel 8th Gen. Core i3/i5 CPU
- 15" P-Cap or Resistive Touchscreen
- Fanless Cooling System
- IP66 Protected Front with Aluminum Housing
- Easily accessible M.2 storage, up to 1TB
- Wide Range 9~36VDC Power Input

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The TP-5645-15 Panel Mount Computer offers a rugged build with a die cast aluminum enclosure for fanless operation and durability in high shock and vibration settings. Advanced processing power from the latest Intel 8th generation core i3/i5 CPUs has long life cycle support. With up to 16GB of DDR4 memory, the TP-5645-15 Panel Mount Computer is a great solution for most Windows or Linux based applications. Easily accessible M.2 storage can be configured as high as 512GB. The front bezel of this [panel PC](#) is IP66 rated for protection from water and dust and uses a full flat design to prevent build-up of particulates on the front surface. A high-brightness touchscreen option can be chosen for environments with low screen visibility. The TP-5645-15 can be configured for 802.3bt Type 3 PoE upon request (requires customer's PSE to be capable of sending at least 45W per device)

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# Technical Specifications

## Primary Components

|                  |   |
|------------------|---|
| Processor Family | Intel Celeron or Core i 8th Generation Whiskey Lake |
| Processor Model  | Core i3 8145UE, Core i5-8365UE                      |
| Processor Speed  | 2.2 GHz   |
| Memory Type      | 1x DDR4 SO-DIMM                                     |
| Memory Support   | 4GB, 8GB, 16GB, 32GB                                |
| Storage Type     | 1x M.2 M Key, PCIe or SATA, 2242 NVME support       |
| Storage Support  | M.2: 128GB-1TB                                      |

## Power

|                        |                               |
|------------------------|-------------------------------|
| Input Voltage Range    | 9-36V DC                      |
| Max Power Consumption  | 59W                           |
| Standard Power Adapter | Optional 12V 5A AC/DC Adapter |

## Battery

|                        |                           |
|------------------------|---------------------------|
| Battery Type           | Optional Internal Battery |
| Battery Operating Time | 20min                     |

## Operating Systems

|         |  |
|---------|--|
| Windows | Windows 10 IoT, Windows 11 IoT, Windows 11 Pro   |
| Linux   | Linux Ubuntu 20.04 or above (Contact your sales rep for more information), Yocto Linux |

## Expansion Slots

|              |                             |
|--------------|-----------------------------|
| Internal M.2 | 1x M.2 for NVME SSD Support |
|--------------|-----------------------------|

## Thermal & Environmental

|                       |                                 |
|-----------------------|---------------------------------|
| Operating Temperature | 0°C - 50°C (32°F - 122°F)       |
| Storage Temperature   | -20°C - 60°C (-4°F - 140°F)     |
| Cooling Solution      | Passive - Fanless with Heatsink |
| Humidity Range        | 10% - 95% Non-condensing        |

## Peripherals & Wireless Connectivity

|          |                       |
|----------|-----------------------|
| Sim Card | 1x Nano SIM Card Slot |
|----------|-----------------------|

## Certification

|                |                           |
|----------------|---------------------------|
| Certifications | CE, FCC Class A, UL 62368 |
|----------------|---------------------------|

## Warranty

|          |        |
|----------|--------|
| Warranty | 1 Year |
|----------|--------|

Specifications subject to change.

## Display

|                   |   |
|-------------------|---|
| Screen Size       | 15"   |
| Screen Resolution | 1024 x 768 (XGA)                            |
| Screen Ratio      | 4:3   |
| Brightness        | 300 nits, Optional 1000 nit High Brightness |

## Touch Screen

|              |                                 |
|--------------|---------------------------------|
| Touch Screen | Projected Capacitive, Resistive |
|--------------|---------------------------------|

## External I/O Ports

|                        |  |
|------------------------|--|
| USB                    | 4x USB 3.0   |
| Serial / Com           | 1x COM   |
| Serial Protocol Detail | Included Y-Cable provides two DB-9 Com ports: 1x 5-pin RS-232 (COM1) and 1x Configurable 3-Pin RS-232/422/485 (COM2) |
| Ethernet / LAN         | 2x RJ45 GbE LAN  |
| Video Outputs          | 1x DisplayPort   |
| Other Ports            | 1x 2-Pin DC Power Switch Connector   |
| Audio Ports            | 1x 3.5mm Audio Line-Out  |
| Power Input Port       | 2-Pin Power Switch, 3-Pin DC-In (Phoenix Type), Optional POE++, 45W with 2x USB 2.0                                  |

## Compatibility

|                   |         |
|-------------------|---------|
| Security Hardware | TPM 2.0 |
|-------------------|---------|

## Multimedia

|          |                  |
|----------|------------------|
| Speakers | Optional Speaker |
|----------|------------------|

## Enclosure

|                     |                         |
|---------------------|-------------------------|
| Material            | Aluminum                |
| IP Rating           | IP66 Front Bezel        |
| Color               | Gray                    |
| Led Indicator Light | Power                   |
| Mounting Options    | Panel Mount, VESA Mount |

## Weight / Dimensions

|            |  |
|------------|--|
| Weight     | 4.29 kg (9.5 lbs)                        |
| Dimensions | 410 x 310 x 67 mm (16.1 x 12.2 x 2.6 in) |

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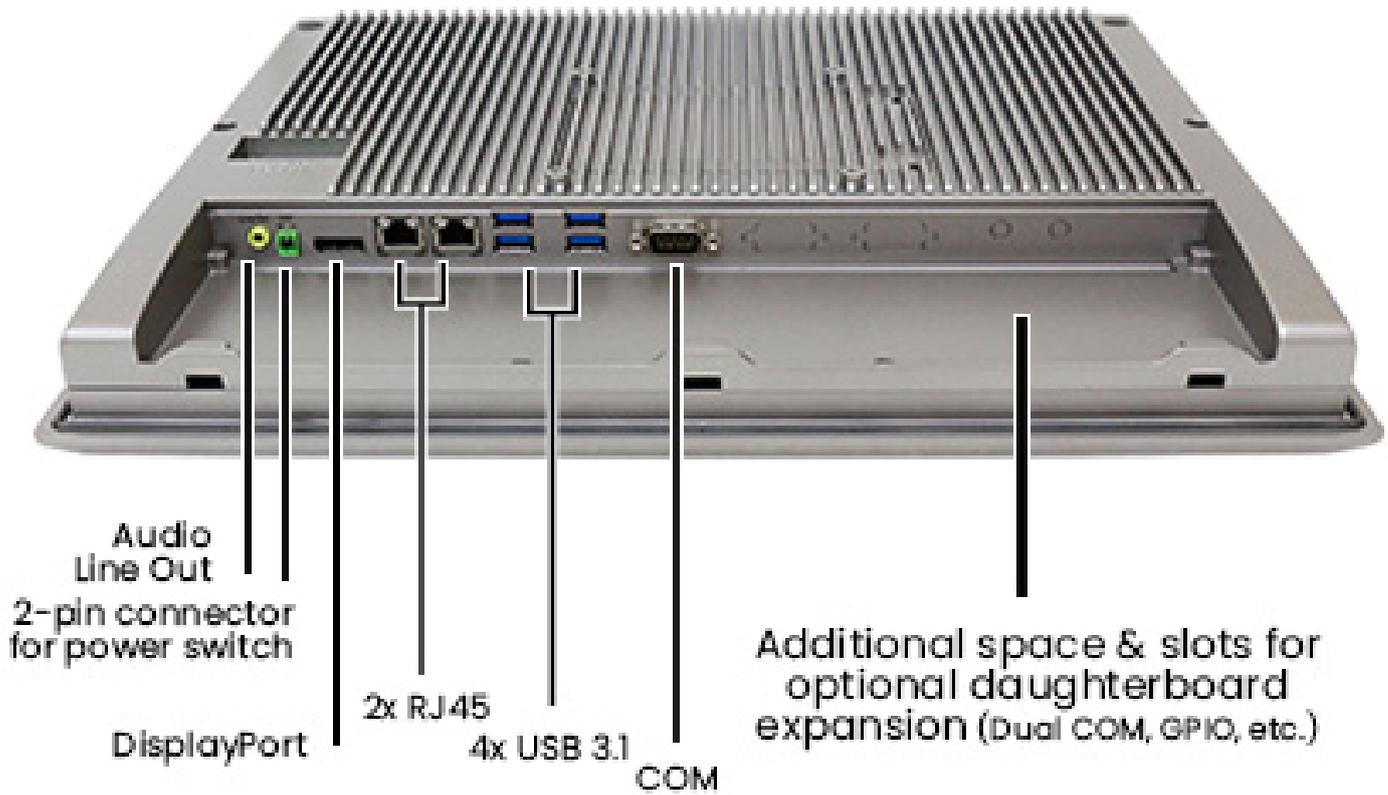
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## I/O Diagram Images



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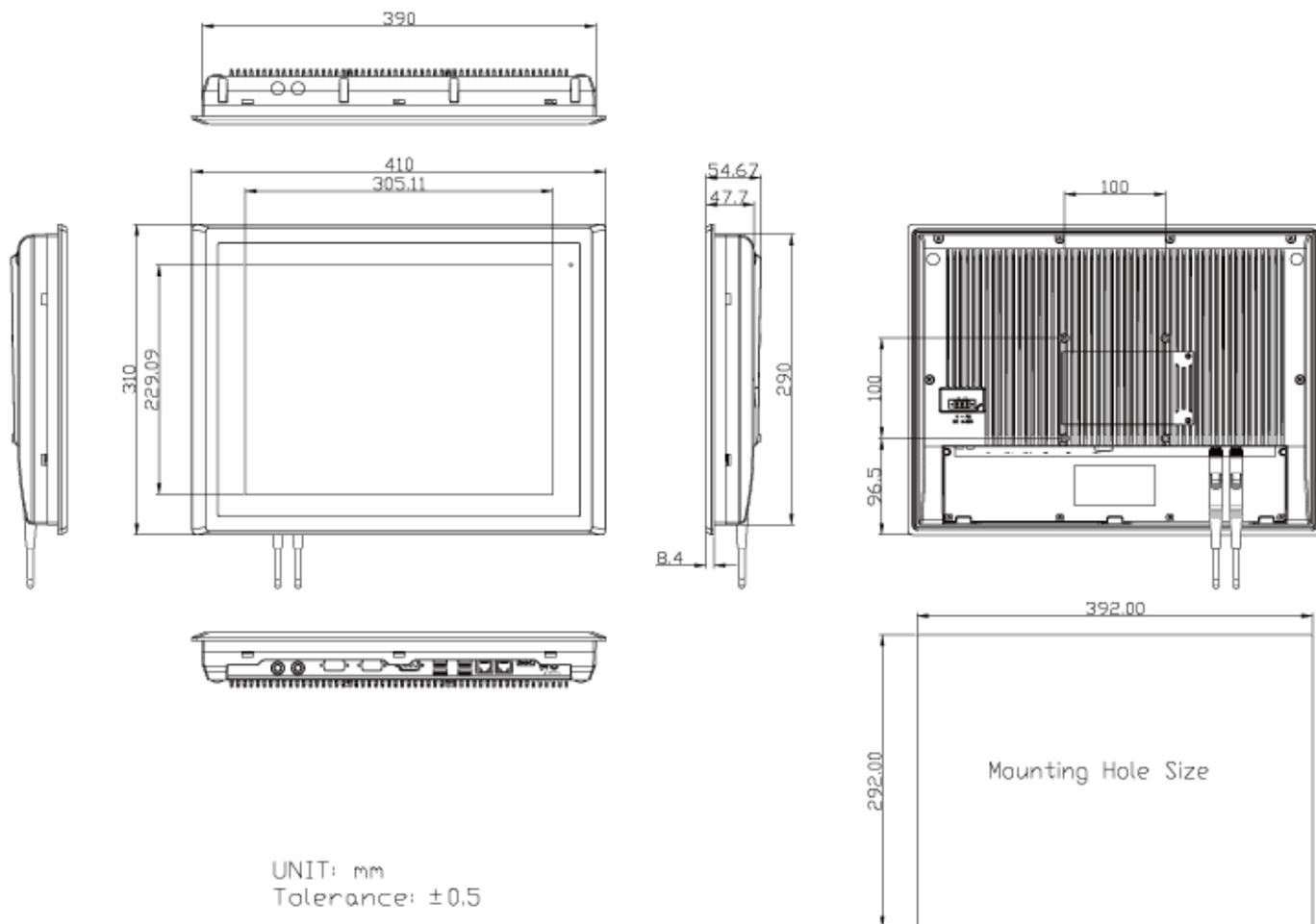
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# Tech Diagram Images



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