

TP-7045-22

22" Industrial Panel PC



Key Highlights

- 12th Generation Alder Lake CPU
- Windows 11
- Fanless with wide operating temperature range
- Multitude of screen sizes (compare to TP-5645)
- Two slots of DDR4 RAM

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Meet Cornerstone, the TP-7045-22 [21.5" Industrial Panel PC](#), designed to enhance efficiency and withstand demanding environments. This versatile all-in-one offers the option of a projected capacitive or resistive touch screen, so it can cater to diverse user needs. Powered by a robust Alder Lake [Intel](#)® processor and running Windows 11, Cornerstone delivers seamless performance in a fanless unit. The IP66-rated front bezel ensures protection against dust and liquid damage, while the wide operating temperature range guarantees reliability in a variety of conditions. Enjoy dual DDR4 RAM slots for optimal speed. Lay the groundwork for your industrial application with Cornerstone.

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Technical Specifications

Primary Components

| | |
|------------------|---|
| Processor Family | Intel Core I series 12th Generation Alder Lake |
| Processor Model | Core i3-1215U |
| Processor Speed | 2x Performance Cores @ 4.4 GHz, 4x Efficient Cores @ 3.3 GHz, Up to 4.4 GHz |
| Memory Type | 2x DDR4 SO-DIMM |
| Memory Support | 4GB, 8GB, 16GB, 32GB, 64GB |
| Storage Type | 1x M.2 2280 NVME SSD slot |
| Storage Support | M.2: 256GB-1TB |

Power

| | |
|---------------------|----------|
| Input Voltage Range | 9-36V DC |
|---------------------|----------|

Operating Systems

| | |
|---------|--|
| Windows | Windows 10 IoT, Windows 10 Pro, Windows 11 IoT, Windows 11 Pro |
|---------|--|

Compatibility

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

Thermal & Environmental

| | |
|-----------------------|---------------------------------|
| Operating Temperature | -20°C - 60°C (-4°F - 140°F) |
| Storage Temperature | -30°C - 70°C (-22°F - 158°F) |
| Cooling Solution | Passive - Fanless with Heatsink |
| Humidity Range | 10% - 95% Non-condensing |

Peripherals & Wireless Connectivity

| | |
|-----------|---------------------------------------|
| WiFi | Optional 802.11 a/b/g/n/ac/ax Wi-Fi 6 |
| Bluetooth | Optional Bluetooth 5.3 |

Certification

| | |
|----------------|---------|
| Certifications | CE, FCC |
|----------------|---------|

Warranty

| | |
|----------|---------------|
| Warranty | Up to 5 Years |
|----------|---------------|

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 (Multi-touch), Resistive |
|--------------|---|

External I/O Ports

| | |
|------------------------|---|
| USB | 2x USB 2.0, 2x USB 3.0 |
| Serial / Com | 3x COM |
| Serial Protocol Detail | COM1 & COM2 RS-232/422/485 (BIOS select, RS-232 default), COM3 RS-232 |
| Ethernet / LAN | 2x RJ45 GbE LAN |
| Power Input Port | 3-Pin DC-In (Phoenix Type) |

Expansion Slots

| | |
|--------------|---|
| Internal M.2 | 1x M.2 2230 Key E (for WiFi expansion option) |
|--------------|---|

Enclosure

| | |
|---------------------|--|
| Material | Aluminum front bezel, Aluminum Heatsink and SECC Steel Chassis |
| IP Rating | IP66 Front Bezel |
| Color | Gray |
| Led Indicator Light | Power |
| Mounting Options | Panel Mount, VESA 100 Mount |

Weight / Dimensions

| | |
|------------|--|
| Weight | 7.5 kg (16.5 lbs) |
| Dimensions | 557.3 x 88 x 362.3 mm (21.9 x 3.5 x 14.3 in) |

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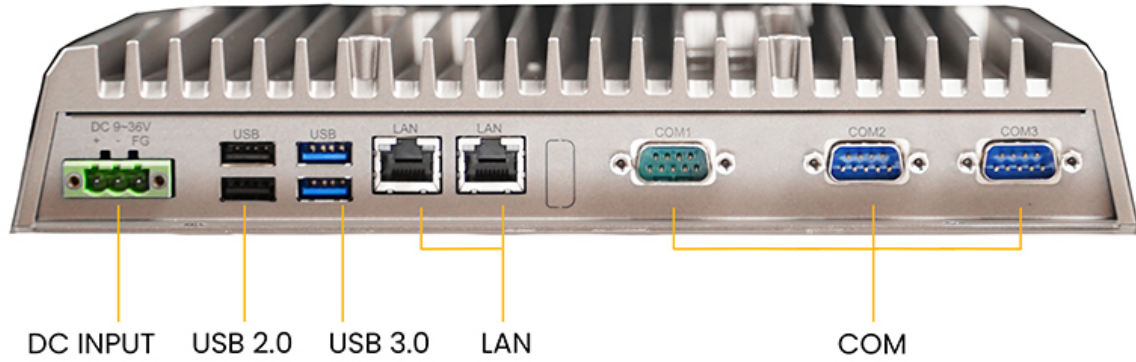
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I/O Diagram Images



USA

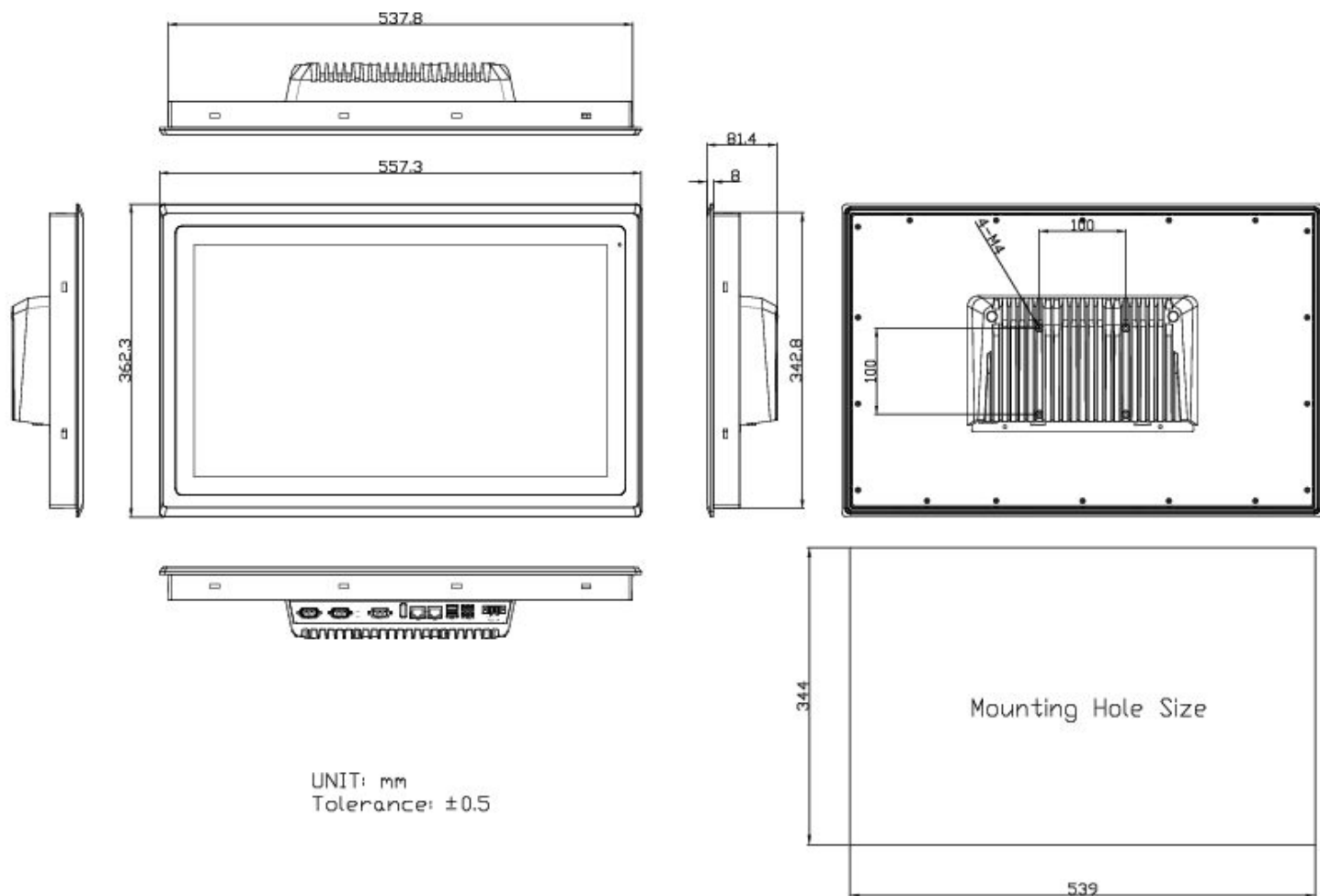
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