



## FEATURES

- 21.5" LED Backlight Display (1920 x 1080 Resolution)
- Intel® Core™ i5-1235U
- 1 x DDR5 4800MHz SO-DIMM Slot, Up to 32GB
- 4 x 1000Mbps Ethernet Port
- 2 x RS232/RS422/RS485 (Configurable Via BIOS)
- DC 12-36V Wide Voltage Input, Supports RVP/SCP/OVP/OCP

## SPECIFICATIONS

### SYSTEM

<b>Processor</b>	Intel® Core™ i5-1235U Processor, 12M Cache, Up to 4.40GHz, with IPU
<b>GPU</b>	Intel® Iris® Xe Graphics eligible
<b>Memory</b>	1 x DDR5 4800MHz SO-DIMM Slot, Up to 32GB
<b>Storage</b>	1 x M.2 2242/2280 NVMe Interface, 1 x 7+15Pin SATA 3.0 Interface
<b>OS</b>	Windows 10, Windows 11, Linux

### DISPLAY

<b>Screen Size</b>	21.5" LED Backlight
<b>Resolution</b>	1920 x 1080 (Full HD)
<b>Brightness</b>	250 nits
<b>View Angle</b>	88° (Left), 88° (Right), 88° (Top), 88° (Bottom)
<b>Contrast Ratio</b>	1000 : 1
<b>MTBF</b>	50,000 hours
<b>Touch Type</b>	10-point Capacitive Touch Screen
<b>Transmittance</b>	≥ 81%
<b>Durability</b>	50 Million Touch Points

### MECHANICAL

<b>Structure</b>	Ultra-compact and Fanless Design, Front Panel IP65 Compliant
<b>Dimensions</b>	532.5 x 324 x 79mm
<b>Cut Out Size</b>	520.5 x 312mm

### POWER

<b>Input Voltage</b>	DC 12-36V, Support RVP/SCP/OVP/OCP
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### I/O INTERFACE

<b>Display Interface</b>	1 x HDMI 1.4b, 1 x DP 1.2
<b>LAN</b>	3 x Intel® Ethernet Controller I226-V 1 x Intel® Ethernet Controller I210-AT (PoE Optional)
<b>I/O Ports</b>	2 x RS232/RS422/RS485 4 x USB 3.2 2 x Isolation RS232 1 x Remote Switch
<b>Expansion Slot</b>	1 x M.2 Key E 2230 Slot (Supports Wi-Fi 6 Module) 1 x M.2 Key B 3052/3042 Slot (Supports 4G/5G Module)

### ENVIRONMENTAL

<b>Operating Temperature</b>	0°C to 50°C (with Normal Grade RAM & SSD) -20°C to 60°C (with Industrial Grade RAM & SSD)
<b>Storage Temperature</b>	-20°C to 60°C (Non-operating)
<b>Humidity</b>	95% Relative Humidity @ 40°C, Non-condensing
<b>Vibration (OP)</b>	5~500Hz, 1Grms
<b>Shock (OP)</b>	15g, 11ms, 1Grms
<b>EMC</b>	CE Class A

## Options

### SYSTEM

<b>Storage</b>	M.2 SSD Support: 128GB, 256GB, 512GB, 1TB, 2TB 2.5-inch Hard Drive Expansion: 128GB, 256GB, 512GB, 1TB, 2TB
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### Expansion Card

<b>MXIO Expansion Card 1</b>	2 x Isolated RS232 COM Ports (DB9 Connector)
<b>MXIO Expansion Card 2</b>	2 x CAN (Controller Area Network) ports 4 x Isolated Digital Inputs (DI) 4 x Isolated Digital Outputs (DO) Dual-layer European Terminal
<b>MXIO Expansion Card 3</b>	4 x Isolated Digital Inputs (DI) 4 x Isolated Digital Outputs (DO) 4 x Light Source Interfaces

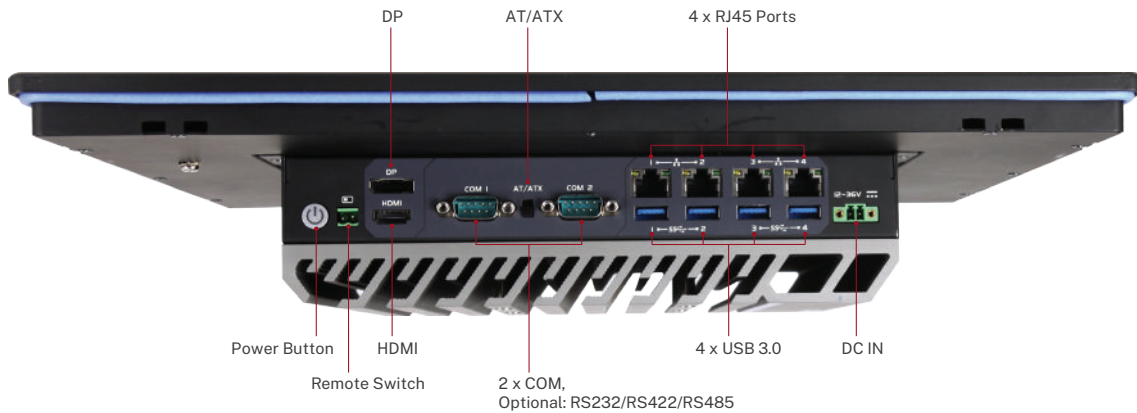
### Communications

<b>4G/5G Module</b>	4G/5G Module with Antenna
<b>Wi-Fi &amp; Bluetooth Module</b>	WiFi & Bluetooth Module with Antenna

### Others

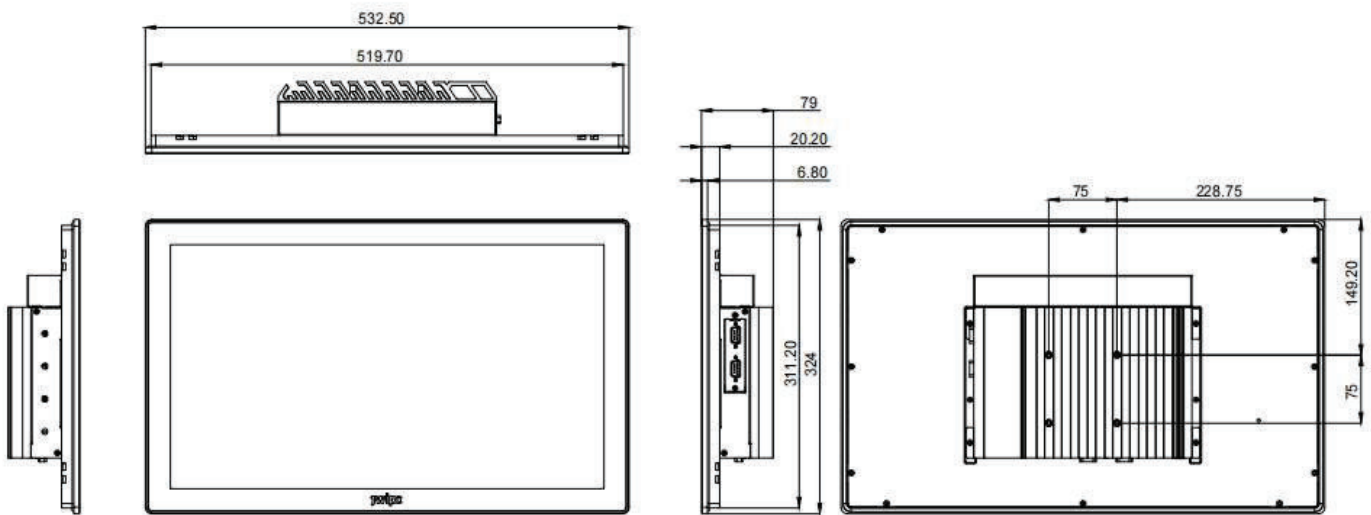
<b>PoE Power Supply Card</b>	One Port: 25W (Max) Four Ports: 60W (Max) Supports IEEE 802.3at Protocol
<b>Embedded Clip</b>	Metal Structure Fixed Button Assembly Material: SUS304 Stainless Steel Thickness: 3.0mm Dimensions: 24 x 21.7 x 23mm Finish: Brushed 180 Mesh, Natural Color

## SYSTEM LAYOUT



## PRODUCT DIMENSIONS

Unit: mm



CUT OUT Dimensions:  $520.5^{+1.0}_{-0} \times 312^{+1.0}_{-0}$  mm

## MARKET & APPLICATIONS:

Smart Factories

Wind Power Systems

Solar Photovoltaics (PV) Systems

Environmental Monitoring Industries

Industrial Automation