



FEATURES

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

SPECIFICATIONS

SYSTEM

Processor	Intel® Core™ i5-1235U Processor, 2P + 8E, Base Frequency 1.5GHz
GPU	Intel® Iris® Xe Graphics eligible
Memory	1 x DDR5 4800MHz SO-DIMM Slot, Up to 32GB
Storage	1 x M.2 2242/2280 Nvme Interface, 1 x 7+15Pin SATA 3.0 Interface
OS	Windows 10, Windows 11, Linux

DISPLAY

Screen Size	21.5" LED Backlight
Resolution	1920 x 1080
Brightness	250 nits
View Angle	88° (Left), 88° (Right), 88° (Top), 88° (Bottom)
Contrast Ratio	1000 : 1
MTBF	50000 hrs
Touch Type	10-point Capacitive Touch Screen
Transmittance	≥ 81%
Lifespan	50 Million Times

POWER

Input Voltage	DC 12-36V, Support RVP/SCP/OVP/OC
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I/O INTERFACE

Display Interface	1 x HDMI 1.4b, 1 x DP 1.2
LAN	3 x Intel 1226-V, 1 x Intel 1210AT (PoE is Optional)
I/O Ports	2 x RS23/RS422/RS485 4 x USB 3.2 2 x Isolation RS232 1 x Remote Switch
Expansion Slot	1 x M.2 Key E 2230 Slot, Support WIFI 6 Module 1 x M.2 Key B 3052/3042 Slot, Support 4G/5G Module

MECHANICAL

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

ENVIRONMENTAL

Operating Temperature	0°C to 50°C Use the Normal Grade RAM & SSD -20°C to 60°C Use the Industry Grade RAM & SSD
Storage Temperature	-20°C to 60°C (NOP)
Humidity	95% RH@40°C, Non-condensing
Vibration (OP)	5-500Hz 1Grms
Shock (OP)	15g 11ms 1Grms
EMC	CE Class A

Options

SYSTEM

Storage	M.2 SSD Support 128GB, 256GB, 512GB, 1TB, 2TB 2.5-inch Hard Drive Expansion Support 128GB, 256GB, 512GB, 1TB, 2TB
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Expansion Card

MXIO Expansion Card 1	2 x ISO RS232 COM, DB9 Connector
MXIO Expansion Card 2	2 x CAN, 4 x ISO DI, 4 x ISO DO, Dual-layer European Terminal
MXIO Expansion Card 3	4 x ISO DI, 4 x ISO DO, 4 x Light Source Interface

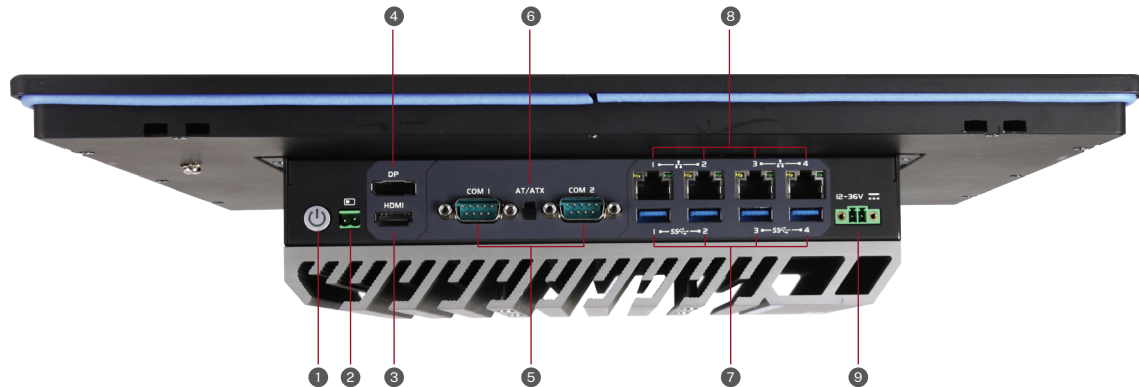
Communications

4G/5G	4G/5G Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

Others

PoE Power Supply Card	PoE Power Supply Module Can Ensure Single-channel 25W Power Supply. Support IEEE 802.3AT Protocol, Single Port 25w (Max), 4 Ports Maximum Power 60w
Embedded Clip	Metal Structure, Fixed Button, Fixed_button_Assembly, SUS304, T=3.0, 24 x 21.7 x 23mm, Brushed 180 Mesh, Natural Color

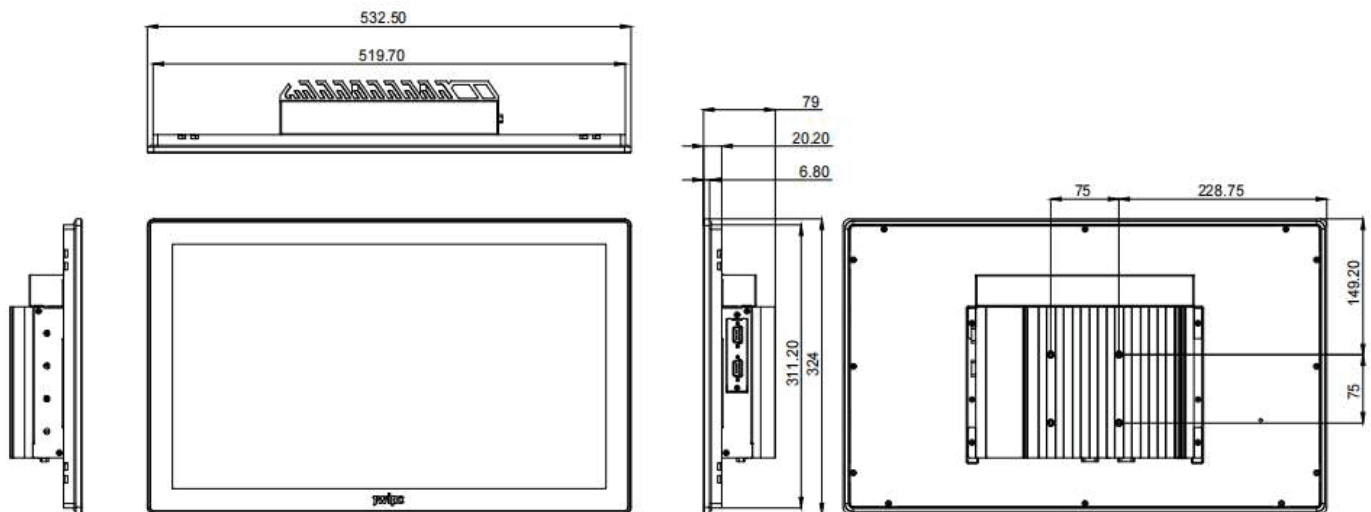
I/O LAYOUT



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|----------------|-----------------|------------------|---------|--|
| 1 Power Button | 2 Remote Switch | 3 HDMI | 4 DP | 5 2 x COM, Optional: RS232/RS422/RS485 |
| 6 AT/ATX | 7 4 x USB 3.0 | 8 4 x RJ45 Ports | 9 DC IN | |

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