



Features

- 12.1” LCD Touchscreen
- Intel 8th Gen Core i3/i5 Processor
- Slim and Fanless Design
- IP66/IP69K Stainless Steel Front Bezel

Technical Specifications

Primary Components

|                  |                                                   |
|------------------|---------------------------------------------------|
| Processor Family | Intel Core I series 8th Generation Whiskey Lake-U |
| Processor Model  | Core i3 8145UE, Core i5-8365UE                    |
| Processor Speed  | Up to 4.1 GHz, 2.3 GHz                            |
| Memory Type      | 1x DDR4 SO-DIMM                                   |
| Memory Support   | 4GB, 8GB, 16GB, 32GB                              |
| Storage Type     | 1x M.2 M Key, PCIe or SATA, 2242 default or 2280  |
| Storage Support  | 128GB-1TB                                         |

Display

|                   |                                             |
|-------------------|---------------------------------------------|
| Screen Size       | 12.1"                                       |
| Screen Resolution | 1024 x 768 (XGA)                            |
| Screen Ratio      | 4:3                                         |
| Brightness        | Optional 1000 nit High Brightness, 450 nits |

Touch Screen

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

External I/O Ports

|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| USB                    | 4x USB 3.0                                                                                                           |
| Serial / Com           | 2x 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                                                                                                       |
| Audio Ports            | 1x Audio Line-Out                                                                                                    |
| Power Input Port       | DC-in Jack (Phoenix Type)                                                                                            |

Power

|                        |                               |
|------------------------|-------------------------------|
| Input Voltage Range    | 9-36V DC                      |
| Max Power Consumption  | 56W                           |
| Standard Power Adapter | Optional 12V 5A AC/DC Adapter |

Operating Systems

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

Expansion Slots

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

Thermal & Environmental

|                       |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| Operating Temperature | 0°C - 50°C (32°F – 122°F (i3/i5)), -20°C - 60°C (Optional -4°F – 140°F) |
| Storage Temperature   | -20°C - 60°C (-4°F – 140°F)                                             |
| Cooling Solution      | Passive – Fanless                                                       |
| Humidity Range        | 10% – 95% Non-condensing                                                |
| Storage Humidity      | 10% – 90% Non-condensing                                                |

Enclosure

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material                    | Aluminum, Optional SUS316 Stainless Steel, SUS304 Stainless Steel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| IP Rating                   | IP66 Front Bezel, IP69K Front Bezel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Color                       | Silver, Stainless Steel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Mounting Options            | Panel Mount, VESA 100 Mount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Approved Cleaning Solutions | Acetic Acid (low concentration), Ammonium Nitrate (low concentration), Benzine, Citric Acid (low concentration), Ethanol, Ethylene Glycol Solution (1:1 with water), Hexane, Hydrochloric Acid (low concentration), Iron Chloride Solution, Isooctane, Isopropyl Alcohol, Nitric Acid (low concentration), Paraffin, Perhydrol (30% in water), Phosphoric Acid (low concentration), Propane, Silicone Oil, Sodium Carbonate (low concentration), Sodium Chloride Solution, Sodium Nitrate (low concentration), Sulfuric Acid (low concentration), Triethylene Glycol |

Peripherals & Wireless Connectivity

|           |                                                       |
|-----------|-------------------------------------------------------|
| WiFi      | Optional 802.11 ac + Bluetooth with External Antennas |
| Bluetooth | Optional Bluetooth 4.0                                |
| Sim Card  | 1x Nano SIM Card Slot                                 |

Weight / Dimensions

|            |                                             |
|------------|---------------------------------------------|
| Weight     | 2.5 kg (5.5 lbs)                            |
| Dimensions | 331 x 257 x 52 mm mm (13.0 x 10.1 x 2.0 in) |

Certification

|                |                                                              |
|----------------|--------------------------------------------------------------|
| Certifications | CE, EN 1672-2 Complaint (PCAP Touchscreen Only), FCC Class A |
|----------------|--------------------------------------------------------------|

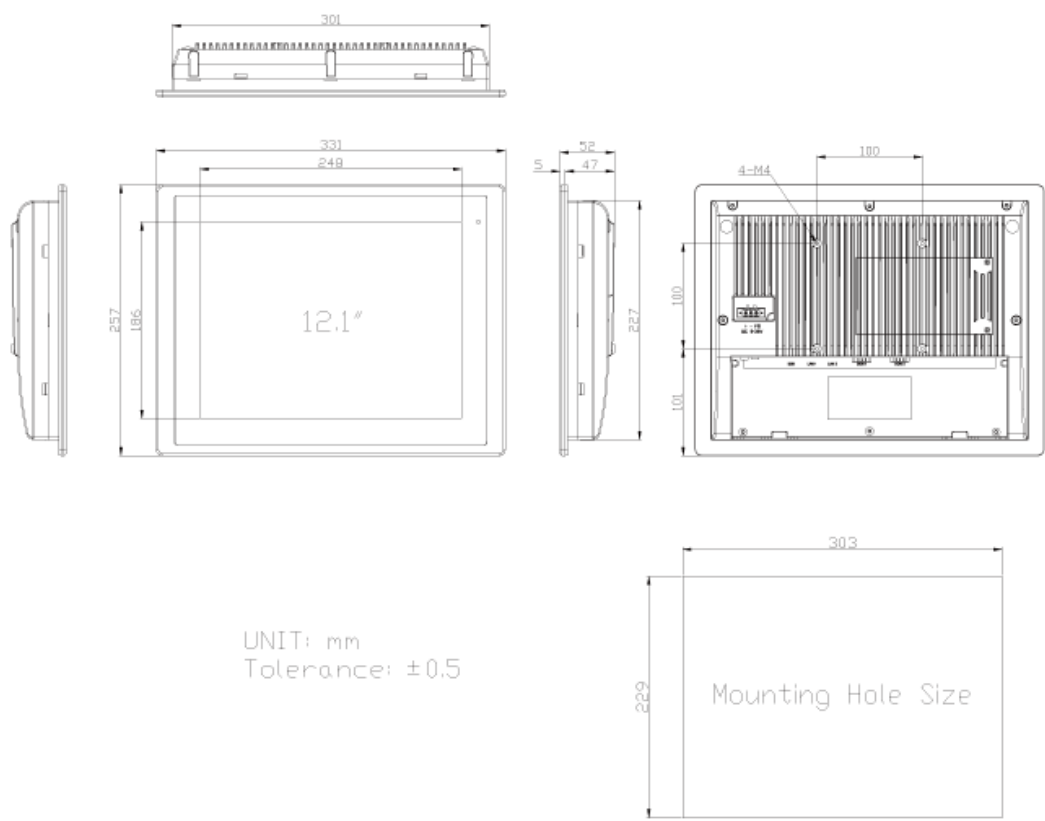
Warranty

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

I/O Diagram Images



Tech Diagram Images



All specifications are subject to change without notice.