

## 12.1" Windows Vehicle Mount Computer with Intel® Alder Lake-N97 Processor

### Overview

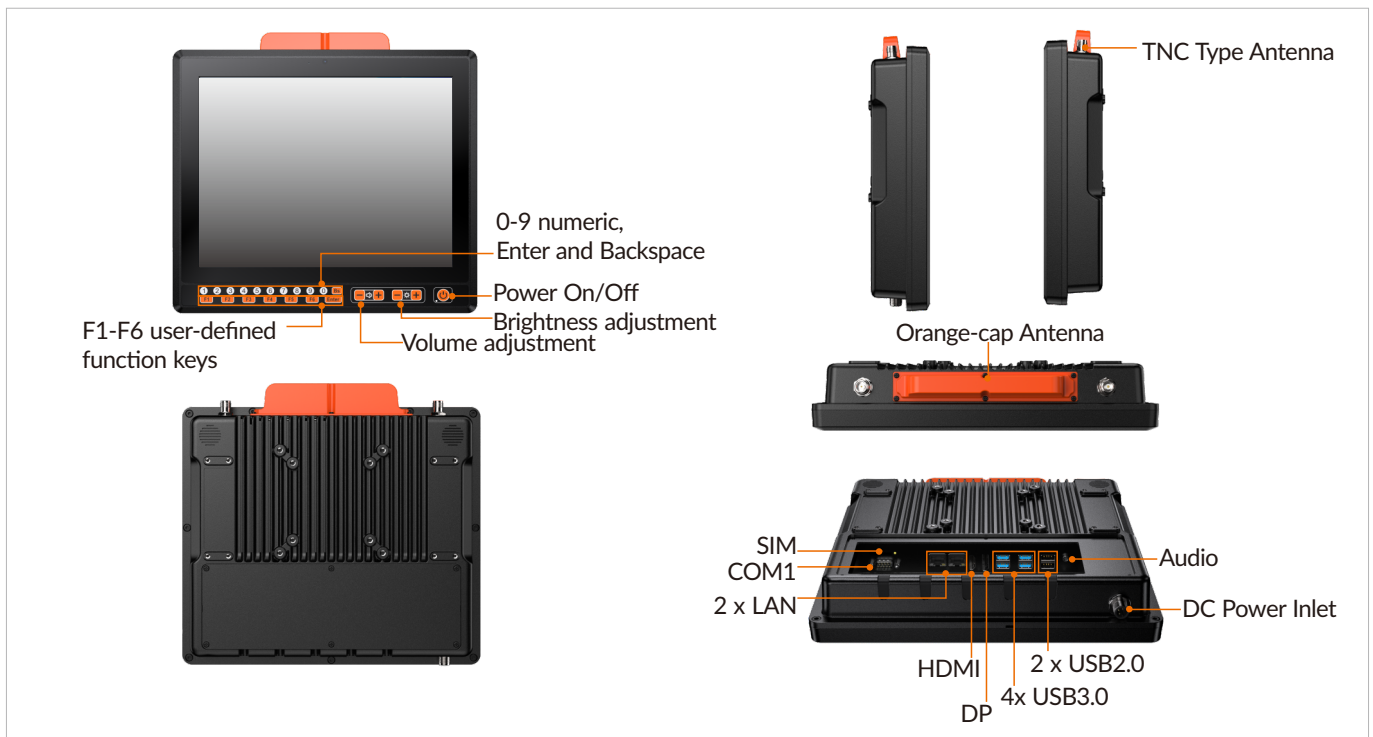
The VT-877 is a ruggedized vehicle-mounted computer with an Intel® Alder Lake-N97 processor and Windows 11 OS, offering full Windows computing power in a mobile environment. It features a 12.1-inch industrial touch screen, WiFi 7, Bluetooth 5.4, 4G/5G, GNSS, and 8 to 36V DC input, making it suitable for warehousing, logistics, and container trucks. It meets MIL-STD-810H for anti-shock/vibration and IP66 for dust/water resistance, allowing operation in demanding environments.

### Features

- 12.1" TFT-LCD with projected capacitive or resistive touchscreen
- Front panel integrated numeric and function keys
- Rugged aluminum enclosure and fanless design
- IP66 protection against water and dust
- Compliant with MIL-STD-810H vibration testing standards
- Wide range 8 to 36VDC power input
- Flexible expansion capability for Wi-Fi 7, Bluetooth 5.4, LTE, 5G, GNSS, CAN2.0B



### I/O Interfaces

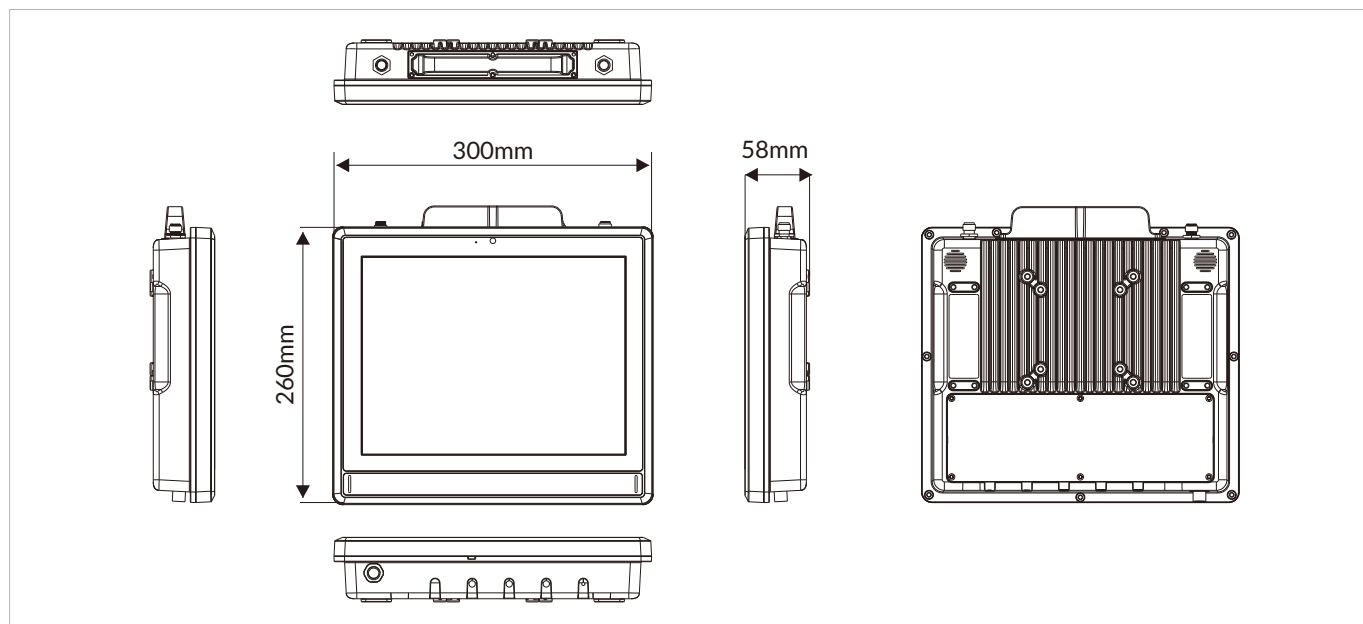


## Specifications

| Display           |                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Size              | 12.1 inch (4:3)                                                                                                                                 |
| Touch Type        | Projected capacitive multi touch/5-wire resistive touch (Optional, by request)                                                                  |
| Display Type      | TFT LCD                                                                                                                                         |
| Resolution        | 1024 x 768                                                                                                                                      |
| Luminance         | 1000 nits                                                                                                                                       |
| Contrast Ratio    | 1000: 1                                                                                                                                         |
| View Angles       | 85 (left), 85 (right), 85 (up), 85 (down)                                                                                                       |
| Color             | 16.7M                                                                                                                                           |
| System            |                                                                                                                                                 |
| CPU               | Intel® Alder Lake-N97, Intel 7, 4-core, up to 3.6GHz                                                                                            |
| Chipset           | Intel® Alder Lake-N Platform                                                                                                                    |
| Memory            | 4GB DDR4-2666 SO-DIMM (up to 16GB)                                                                                                              |
| Storage           | 128GB M.2 2280 SATA SSD (up to 2TB)                                                                                                             |
| Graphics          | Intel® UHD Graphics                                                                                                                             |
| BIOS              | AMI UEFI BIOS                                                                                                                                   |
| Keypad & Keyboard |                                                                                                                                                 |
| Keyboard          | Power On/Off<br>Brightness and volume adjustment<br>0-9 numeric, enter and backspace<br>F1-F6 user-defined function keys<br>Power LED indicator |
| I/O Ports         |                                                                                                                                                 |
| USB               | 4x USB 3.0 (Type A), 2x USB 2.0 (Type A)                                                                                                        |
| Serial            | 1x RS-232 (COM1, DB9)                                                                                                                           |
| Ethernet          | 2x GbE LAN (RJ45)                                                                                                                               |
| Display           | 1x HDMI (Type A)<br>1x DP++ (Type A)                                                                                                            |
| Audio             | 3.5mm Audio Jack (Mic-in/Line-out)                                                                                                              |
| SIM Card Slot     | 1x SIM Socket                                                                                                                                   |
| Antenna           | 2 to 8x TNC connector for external antenna (Wi-Fi, Bluetooth, WWAN, GPS)                                                                        |
| RF Communication  |                                                                                                                                                 |
| Wi-Fi             | Wi-Fi 6E: 802.11a/b/g/n/ac/ax, 2.4G/5G/6G (optional)<br>Wi-Fi 7: 802.11a/b/g/n/ac/ax/be, 2.4G/5G/6G (optional)                                  |
| Cellular          | 4G, LTE (optional)<br>5G, NSA/SA (optional)                                                                                                     |
| Bluetooth         | Bluetooth 5.3 (depends on Wi-Fi 6E, optional)<br>Bluetooth 5.4 (depends on Wi-Fi 7, optional)                                                   |
| GNSS              | GPS, GLONASS, Galileo, BeiDou (optional, Ublox NEO M8N)                                                                                         |
| Audio             |                                                                                                                                                 |
| Speaker           | 8Ω/2W, dual studio speakers                                                                                                                     |
| Power             |                                                                                                                                                 |
| DC Input          | 8 to 36VDC                                                                                                                                      |
| Power Consumption | 18W (Typ.)                                                                                                                                      |
| Power Mode        | ATX (default), AT                                                                                                                               |
| Operating System  |                                                                                                                                                 |
| Windows           | Windows 11 IoT Enterprise LTSC<br>Windows 10 IoT Enterprise LTSC<br>Windows 11 Pro<br>Windows 10 Pro                                            |

| Mechanical             |                                                |
|------------------------|------------------------------------------------|
| Dimensions (W x D x H) | 300 x 260 x 58 mm (11.8 x 10.24 x 2.28 inches) |
| Weight (N.W.)          | 3.8 kg (8.4 lbs)                               |
| Mounting Mode          | VESA 75 and 100                                |
| Material               | Die-casting Aluminum with Heavy Duty Metal     |
| Environment            |                                                |
| Operating Temperature  | -30 to 60°C (-22 to 140°F)                     |
| Storage Temperature    | -40 to 70°C (-40 to 158°F)                     |
| Relative Humidity      | 95% @ 70°C (158°F), non-condensing             |
| Shock                  | MIL-STD-810H Method 514.8 Procedure I          |
| Vibration              | MIL-STD-810H Method 516.8 Procedure I          |
| IP Rating              | IP66 compliant                                 |
| Certification          |                                                |
| EMC                    | CE, FCC                                        |

## Dimensions



## Optional Accessories

| Part No.       | Description                                      |
|----------------|--------------------------------------------------|
| PWR836D512-M12 | 8 to 36VDC Input, 5V/12VDC Output, M12 connector |

## Ordering Information

| Part No.         | Description                                                                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VT-877-D101A-A01 | VT-877 with Intel® Alder Lake-N97, 12.1" projected capacitive touch LCD, 4GB RAM(HIK), 128GB M.2(HIK), WiFi6E(AX210), Bluetooth(AX210), 4G(EC20), GPS(UG-M80), TNC(1)-Wi-Fi_M, TNC(2)-Bluetooth, TNC(3)-4G_M, TNC(8)-GPS |