

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

Overview

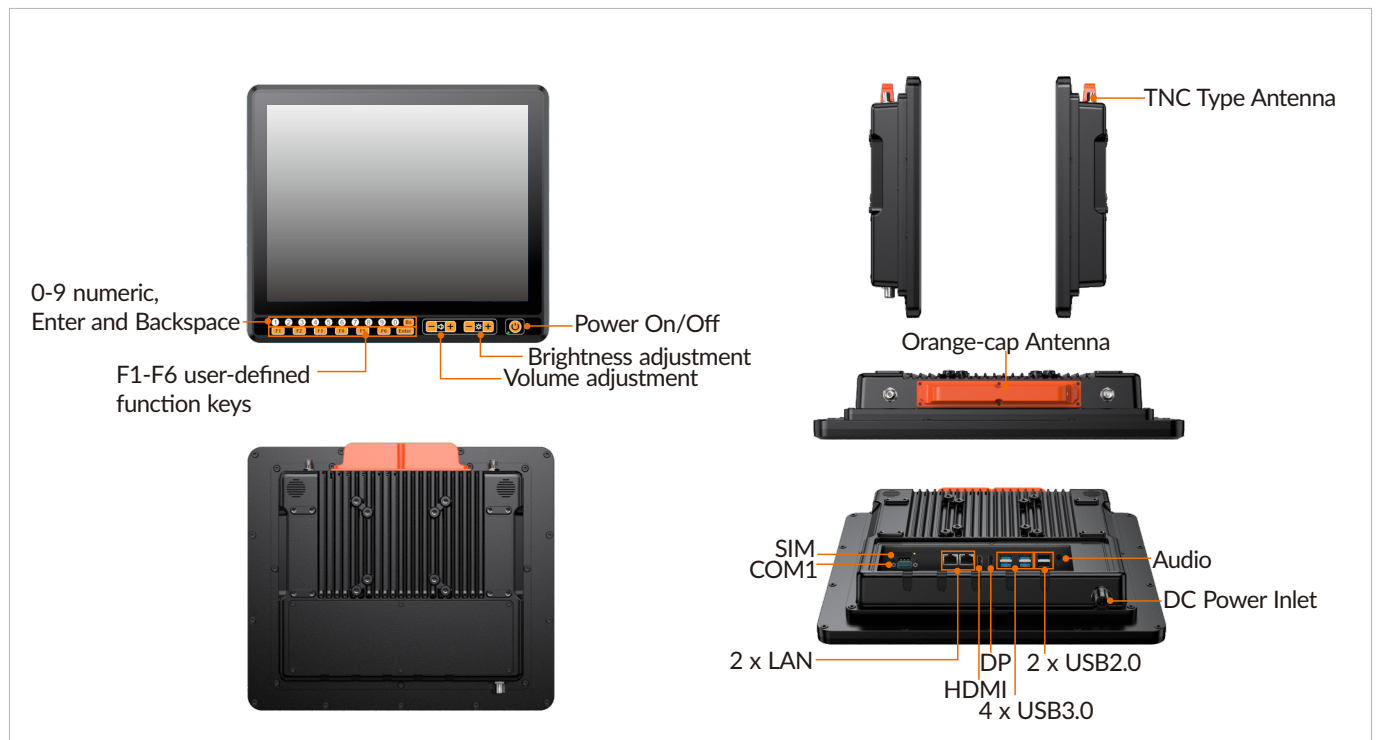
The VT-977 is a ruggedized vehicle-mounted computer with an Intel® Alder Lake-N97 processor and Windows 11 OS, offering full Windows computing power in a mobile environment. It features a 15-inch industrial touch screen, Wi-Fi 7, Bluetooth 5.4, 4G/5G, GNSS, and supports 8 to 36V DC input, making it suitable for warehousing, logistics, and container trucks. It meets MIL-STD-810H for anti-shock/vibration and IP66 for dust/water resistance, allowing reliable operation in demanding environments.

Features

- 15" 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



I/O Interfaces

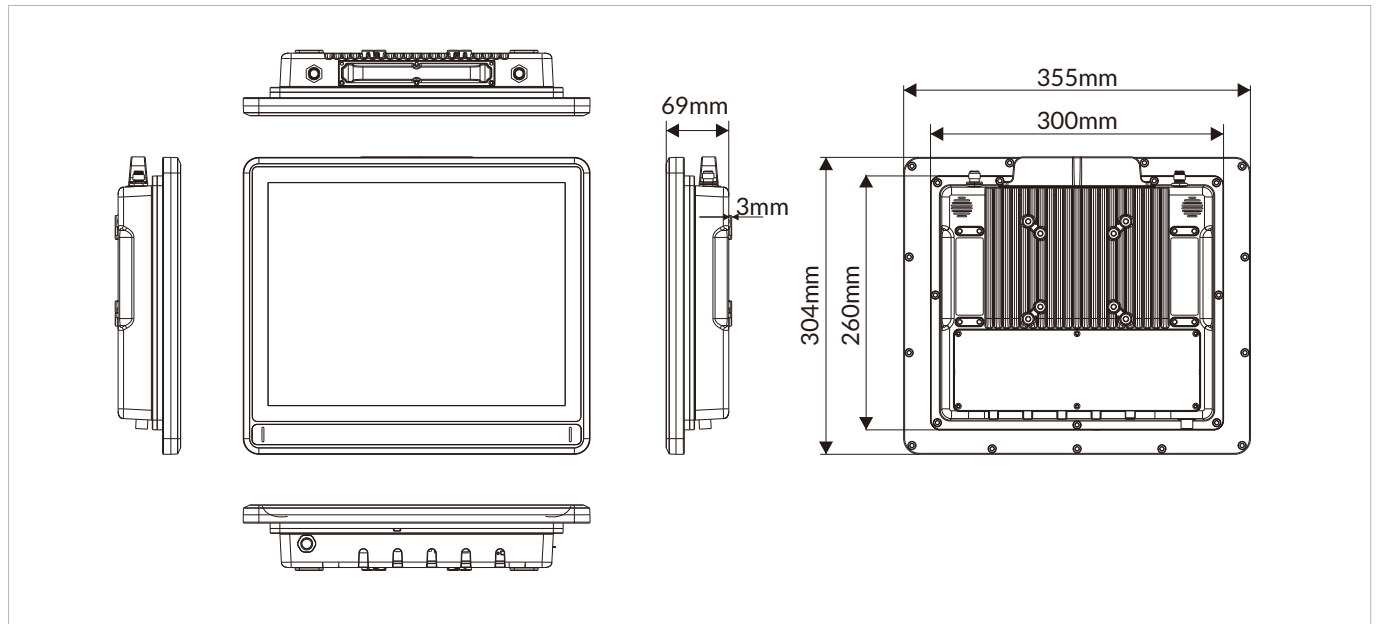


Specifications

Display	
Size	15 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	89 (left), 89 (right), 89 (up), 89 (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 Brightness and volume adjustment 0-9 numeric, enter and backspace F1-F6 user-defined function keys 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) 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) Wi-Fi 7: 802.11a/b/g/n/ac/ax/be, 2.4G/5G/6G (optional)
Cellular	4G, LTE (optional) 5G, NSA/SA (optional)
Bluetooth	Bluetooth 5.3 (depends on Wi-Fi 6E, optional) 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	20W (Typ.)
Power Mode	ATX (default), AT
Operating System	
Windows	Windows 11 IoT Enterprise LTSC Windows 10 IoT Enterprise LTSC Windows 11 Pro Windows 10 Pro

Mechanical	
Dimensions (W x D x H)	355 x 304 x 69 mm (13.97 x 11.96 x 2.71 inches)
Weight (N.W.)	4.8 kg (10.58 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-977-D401B-A01	VT-977 with Intel® Alder Lake-N97, 15" 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