# **VT-658W**



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#### 8" Windows Vehicle Mount Computer with Intel<sup>®</sup> Celeron<sup>®</sup> Processor

## Overview

The VT-658W is a ruggedized vehicle-mounted computer powered by an Intel<sup>®</sup> Celeron<sup>®</sup> processor and built with an 8-inch industrial resistive touchscreen and integrated QWERTY keyboard. It offers the choices of Windows-based OS, ensuring compatibility with most applications and optimizing network management systems. The VESA 75 and 100 mounts make installation in forklifts, cranes, trucks easy, while flexible WiFi 6E, Bluetooth V5.3, 4G LTE/5G, GNSS, and CAN2.0B expansion options ensure always connected. Furthermore, it has an 8 to 36V wide-range DC input with power ignition function, allowing it to adapt to different power systems. It complies with the MIL-STD-810G military standards for shock and vibration resistance, and it is IP65 rated for protection against dust and water, ensuring its reliability in challenging environments.

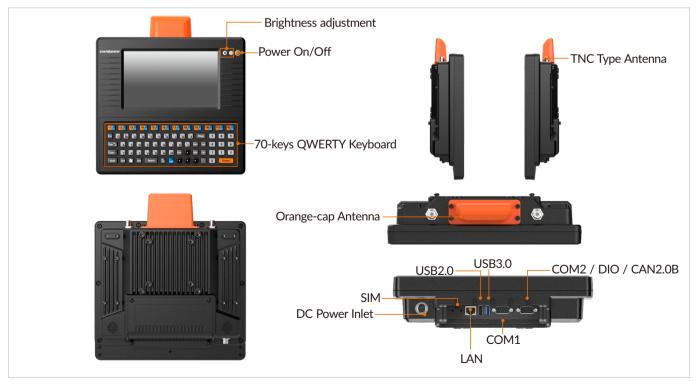
## Features

- 8" TFT-LCD with resistive touchscreen
- Integrated QWERTY keyboard
- Rugged aluminum enclosure and fanless design
- IP65 protection against water and dust
- Compliant with MIL-STD-810G vibration testing standards
- Wide range 8-36VDC power input with ignition control
- Flexible expansion capability for Wi-Fi 6, Bluetooth 5.3, LTE, 5G, GPS, CAN2.0B





# I/O Interfaces









# Specifications

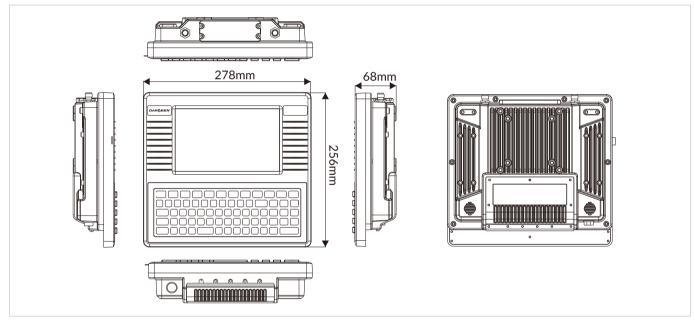
8 inch (16:9)
5-wire resistive touch
TFT LCD
800 x 480
600 nits
600: 1
80 (left), 80 (right), 80 (up), 80 (down)
16.2M
Intel <sup>®</sup> Celeron <sup>®</sup> J1900 processor (quad core, 2.0 GHz)
Intel <sup>®</sup> Atom <sup>®</sup> and Celeron <sup>®</sup> Processor SoC
4GB DDR3L-1333 SO-DIMM (up to 8GB)
128GB mSATA SSD (up to 512GB)
Intel <sup>®</sup> HD Graphics
SPI BIOS
Power on/off
Brightness adjustment
70-keys QWERTY Keyboard
F1-F24 Function Keys, 0-9 Number and A-Z Alpha Keys,
All Keys LED Backlight, Independent Switch Control, Day and Night Mode
Air Reys LED Backlight, independent Switch Control, Day and Night Hode
1 x USB 2.0 (Type A)
1 x USB 3.0 (Type A)
1 x RS-232/422/485 (COM1 supports 5V/12V, DB9)
1 x RS-232/422/483 (COM1 supports 5V, 12V, DB7) 1 x RS-232 (COM2 supports 5V, DB9)
1 x GbE LAN
1 x Nano SIM socket
4 x DI + 2 x DO (optional, with 3.3V, replace COM2 port)
2 x CAN2.0B (optional, supports J1939 protocol, compatible-layout with COM2 port)
2-4 x TNC connector for external antenna (Wi-Fi, Bluetooth, WWAN, GPS)
Wi-Fi 5: 802.11a/b/g/n/ac, 2.4G/5G (optional)
Wi-Fi 6E: 802.11a/b/g/n/ac/ax, 2.4G/5G (optional)
4G, LTE (optional)
5G, NSA/SA (optional)
Bluetooth 4.0/5.3 (optional)
GPS, GLONASS, Galileo, BeiDou (optional, Ublo x NEO M8N)
$8\Omega/2W$ , mono speaker
8 to 36VDC
15W (Typ.)
Power on delay, default 10 seconds
Power off delay, default 10 seconds
(on/off delay time can be changed via BIOS setting)
7.2V 3350mAh (optional)
ATX (default), AT
Windows 10 IoT Enterprise LTSC
WINDOWS TO IOI EILEIDISE LIGC





Mechanical	
Dimensions (W x D x H)	278 x 256 x 68 mm (10.94 x 10.08 x 2.68 inches)
Weight (N.W.)	3.2 kg (7.05 lbs)
Mounting Mode	VESA 75 and 100
Material	Die-casting aluminum with heavy duty metal
Environment	
Operating Temperature	-20 to 60°C (-4 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-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I
IP Rating	IP65 compliant (I/O interface must be closed)
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-658W-CE45E-A001	VT-658W with Intel <sup>®</sup> Celeron <sup>®</sup> J1900, 8" resistive touchscreen LCD, 4GB RAM(Apacer),
	128GB mSATA(HIK), WiFi6E(AX210), BT5.3(AX210), 4G(EC20), GPS(UG-M80), TNC(L)-WiFi_M,
	Orange Cap-Bluetooth/4G_M, TNC(R)-GPS



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