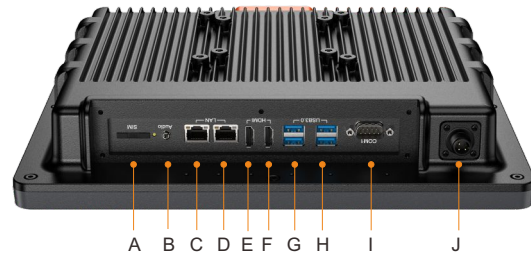# VT-859K

12.1" Resistive / Capacitive Touch, Intel i5-8265U, Windows 10/11, WiFi6 / Bluetooth5.0 / 4G / 5G / GPS, Vehicle Mount Computer



A B C D E F G H I J

A:SIM      F:HDMI
B:Audio     G:USB 3.0
C:LAN      H:USB 3.0
D:LAN      I:COM
E:HDMI     J:DC Power Inlet

TNC Type Antenna
Orange−cap Antenna

## Introduction

VT-859K is the latest generation of ruggedized vehicle mounted computer that comes with Intel Whiskey Lake-U platform processor and Windows10 or Windows 11 operating system. It harnesses full Microsoft® Windows® computing power in a mobile environment, optimizes application and network management compatibility while remaining flexible enough to run multiple advanced applications.
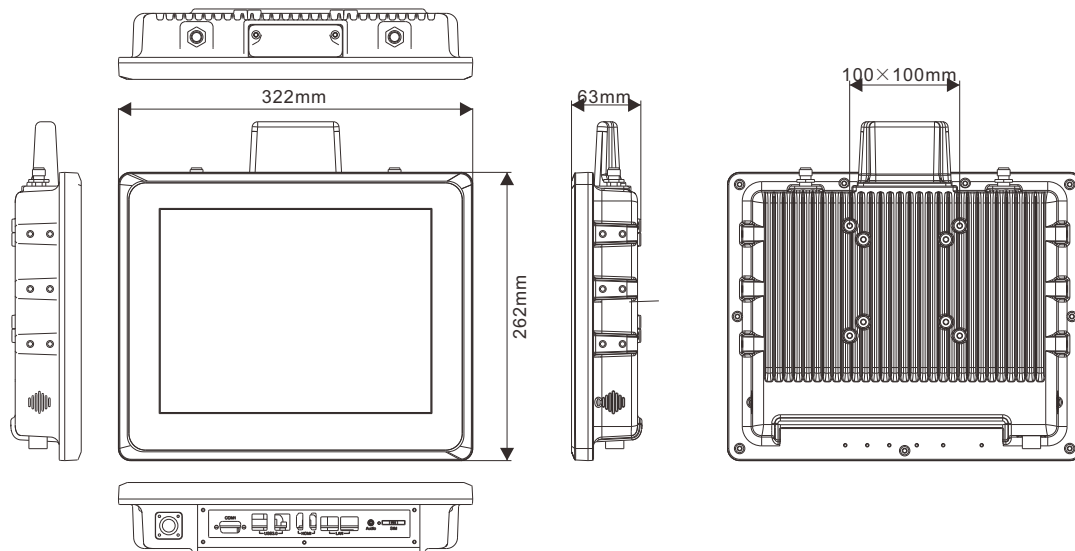
VT-859K incorporates 12.1-inch industrial resistive/capacitive touchscreen, 8~36V wide-range DC input, optional WiFi6, Bluetooth5.0, 4G LTE/5G, GPS/GNSS/Beidou that adapt itself to application in warehousing forklift, logistics, container trucks and so on. It meets the STD-MIL-810G of anti-shock and anti-vibration, IP65 standard of dust and water proof that enable it operating freely in the most demanding environment.

## Features

- 12.1" LED backlight panel with resistive / capacitive touchscreen
- Rugged aluminum enclosure and fanless design
- IP65 dust/water protection
- Front panel intergrated Numeric and Function keys
- Meet MIL-STD 810G standard anti-vibration shock
- Wide range 8-36V DC Power input with ignition control
- VESA 75 and 100 standard mounting
- Flexible expansion capability for WiFi6, Bluetooth 5.0, LTE/5G, GPS

MIL-STD 810G    -20~60℃    8~36V    IP65    Touch

## Dimensions



## Specifications

### System

| | |
|---|---|
| Processor | Intel® Core i5-8265U (1.6GHz) |
| System Memory | 8GB SO-DIMM DDR4-2400 (up to 16GB) |
| Storage | 256GB M.2 SSD (up to 1TB) |
| Operating System | Windows 10 IoT Enterprise LTSC |
| | Windows 11 |

### Display

| | |
|---|---|
| Size | 12.1-inch |
| Resolution | 1024 x 768 |
| Brightness | 400 nits |
| Backlight | LED Backlight |

### Touch Screen

| | |
|---|---|
| Type | VT-859K: 5-Wire Resistive Touchscreen |
| | VT-859KC: Capacitive Touchscreen |

### Keypad & Keyboard

| | |
|---|---|
| Keypad | Power On/Off |
| | Brightness and Volume Adjustment |
| | Power LED Indicator |
| | 0-9 Numeric Keys |
| | F1-F6 User-defined Function Keys |
| | Enter and Backspace |

### RF Communication

| | |
|---|---|
| WLAN | WiFi 6: 802.11a/b/g/n/ac/ax |
| WWAN | 4G LTE (Optional) |
| | 5G NSA/SA (Optional) |
| Bluetooth | Bluetooth 5.0 |
| GPS | Ublox M8, support GPS/GLONASS/Galileo/ Beidou (Optional) |

### I/O

| | |
|---|---|
| Series Port | 1 x RS-232/485 (COM1, RS232_Full-function, RS232/485 setting via jumper, Pin9 can be set to 5V by request) |
| USB Port | 4 x USB3.0 |
| LAN Port | 2 x GbE LAN (RJ45) |
| Others | 2x HDMI |
| | 1 x Audio (Mic-in/Line-out) |
| | 1 x SIM Card Slot (push and push) |
| | 1 x Power Connector |
| | 2~4 x TNC Connectors for External Antenna (WiFi, Bluetooth, WWAN, GPS) |

### Audio

| | |
|---|---|
| Speaker | 2 x Speaker (8ohm, 2w) |

### Power Management

| | |
|---|---|
| Power Input | 8~36V DC |
| Power Consumption | 25W typ. |

### Environmental

| | |
|---|---|
| Operating Temperature | -20~60℃ |
| Relative Humidity | 5%-95%, non-condensing |
| IP Proof | IP65 (I/O interface must be closed) |
| Shock and Vibration | Shock: MIL-STD-810G Method 516.6 Procedure I |
| | Vibration: MIL-STD-810G Method 514.6 Procedure I |
| Certifications | CE, FCC |

### Mechanical

| | |
|---|---|
| Housing | Aluminum |
| Dimension (W x L x H) | 322 x 262 x 63 mm |
| Weight | 3.8 Kg |