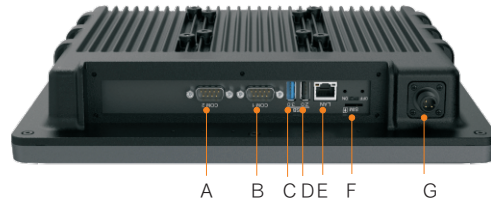# VT-858K

12.1", Resistive capacitive Touch, BayTrial Platform, Integrated Numeric and Function Keys,
Windows 7/10, Vehicle Mount Computer

A: COM2
B: COM1
C: USB2.0
D: USB2.0
E: LAN
F: SIM Card Slot
G: DC Power Inlet

TNC Type Antenna
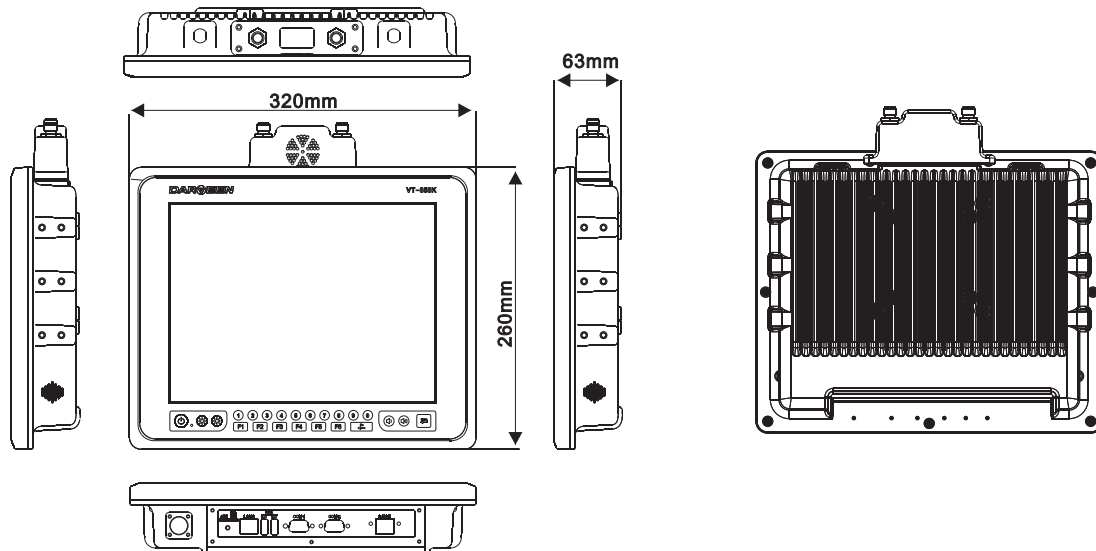Orange−cap Antenna

Introduction

VT-858K is the latest generation of ruggedized vehicle mounted computer that comes with Intel Baytrial platform processor and Windows Embedded Standard or Professional operating system. The VT-858K harnesses full Microsoft® Windows® computing power in a mobile environment, optimizing application and network management compatibility, while remaining flexible enough to run multiple advanced applications.VT-858K assembly 12.1-inch industrial resistive touch screen which using high-temperature process, built-in 802.11 a/b/g/n/ac, Bluetooth V4.0, full netcom LTE / 3.5G, GPS/GNSS/Beidou, CAN2.0B modules, 8~36V wide-range DC input with power ignition function adapt it to the warehousing forklift, logistics, container trucks and so on. Meet the MIL-STD-810G of anti-shock and vibration, IP65 dust and water proof standard make it operaing 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 WiFi, Bluetooth, LTE, GPS, CAN2.0B

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

Dimensions

Specifications

System

Processor	Intel® Quad-Core Celeron J1900 (2.0GHz)
System Memory	4GB SO-DIMM DDR3L-1333 (up to 8GB)
Storage	32GB mSATA SSD (up to 512GB)
Operating System	Windows 10 IoT Enterprise
	Windows 7 Professional
	Windows Embedded Standard 7

Display

Size	12.1-inch
Resolution	1024 x 768
Brightness	500 nits
Backlight	LED Backlight

Touchscreen

Type	VT-858K: 5-Wire Resistive Touchscreen
	VT-858K-C: Multi-touch 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
Keyboard	/

RF Communication

WLAN	802.11a/b/g/n/ac (Optional)
WWAN	4G LTE (Optional)
Bluetooth	Bluetooth 4.0 (Optional)
GPS	SIRF III GPS/GLONASS (Optional)
	Beidou GPS (Optional)
	u-Blox GPS (Optional, 2.5 meters positioning accuracy)

I/O

Series Port	1 x RS-232/422/485 (COM1, full-function,
	Pin 9 function can be set to RI, 5V or 12V by jumper)
	1 x RS-232 (COM2, full-function,
	Pin9 function can be set to RI or 5V by jumper)
	1 x RS-232 (COM3, 3-wire)"
USB Port	1 x USB2.0
	1 x USB3.0
LAN Port	1 x GbE LAN (RJ-45)
DI/DO	4DI/2DO (Optional, with 3.3V power, substitute COM2)
CAN Bus	2 x CAN2.0B (Optional, compatible CAN2.0A,
	support J1939 protocol and in accordance with
	ISO 11898-1/2/3,substitute COM2)
Others	1 x SIM Card Slot (push and push)
	1 x Power Connector
	2/3/4 x TNC Connectors for External Antenna
	(WiFi, Bluetooth, WWAN, GPS)
	1 x Battery Switch

Audio

Speaker	2 x Speaker (8ohm, 2w)

Power Management

Power Input	8~36V DC
Power Consumption	16W typ.
Ignition On/Off	Power on delay, default 10 seconds;
	Power off delay, default 10 seconds;
	(On/Off delay time can be changed via BIOS setting);
UPS Battery	3350mAh/7.2V (Optional)

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)	320 x 260 x 66 mm
Weight	3.6 Kg