VC-3000

DARVEEN

Rugged Embedded Computer for Vehicle with Intel® J1900 Processor

Overview

VC series are rugged vehicle computers launched by Darveen for mining and other industries. They are equipped with Intel J1900 or Core-I processor and pre-installed Windows operating system. It can fully utilize Microsoft Windows data processing capabilities in mobile vehicle and improve application and network management capabilities, while maintaining the flexibility and ease of use of multi-tasking applications.

VC series can be extended to 802.11a/b/g/n/ac, Bluetooth V4.0, full Netcom LTE, dedicated network 1.4G/1.8G LTE, GPS/GNSS/Beidou, CAN2.0B and other modules, 8~36V wide voltage DC input power management with Power ignition delay switch function, in addition, the whole series adopts high-strength and thickened metal shell, which meets the STD-MIL-810G anti-vibration and shock standard, and can still operate freely in the most severe environments.

Features

- Intel® Celeron® J1900 Processor
- Rugged aluminum enclosure and fanless design
- -30~70℃ Operating Temp.
- 8~36V DC input with ignition control
- Flexible expansion capability for WiFi, Bluetooth, LTE/5G, GPS, CAN2.0B
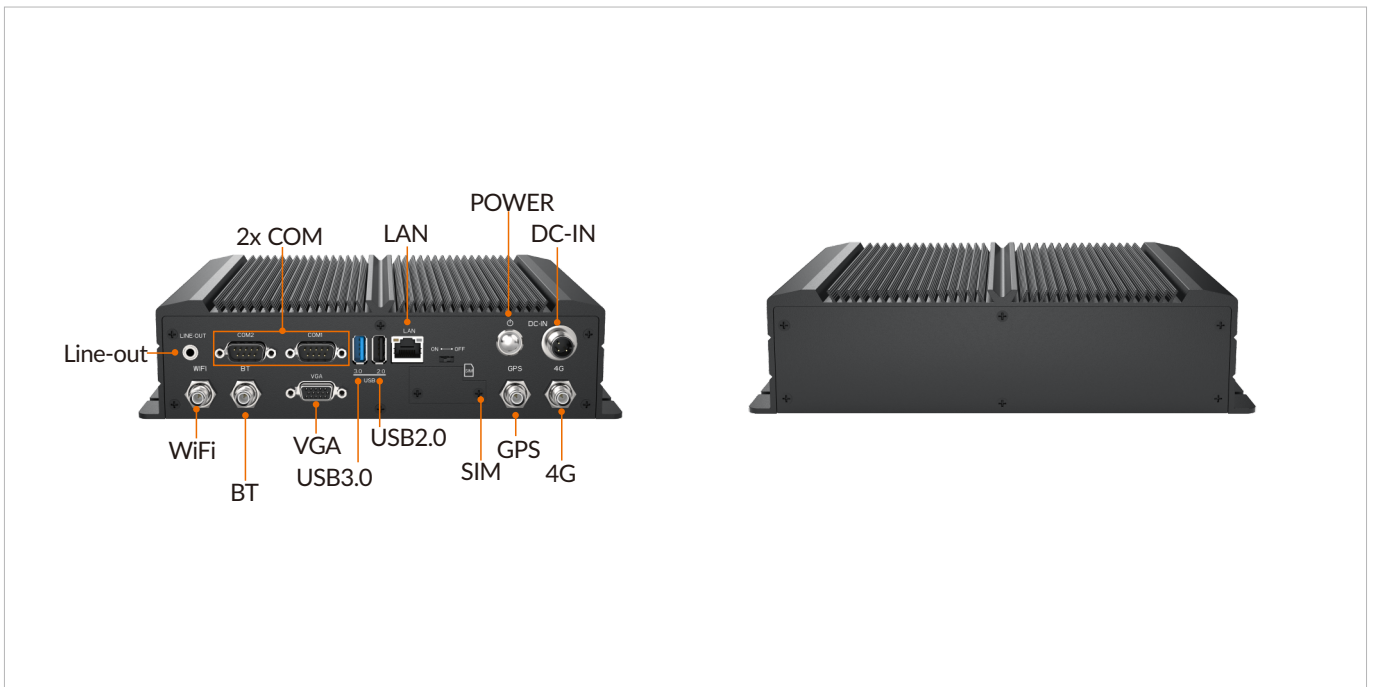
Operating Temp.	Power Input	Fanless	Ultra-thin Handheld

I/O Interfaces

Specifications

System	VC-3000-J1900
CPU	Intel® Celeron® J1900 Quad-core Processor (2.0GHz)
Memory	1 x SO-DIMM DDR3L-1333/1600 (Up to 8GB)
Storage	1 x Mini-PCIe for mSATA SSD
GPU	Intel HD Graphics
I/O Ports	
USB Port	1 x USB3.0, 1 x USB2.0
Serial Port	1 x RS-232/422/485, 1 x RS232
Ethernet	1 x GbE LAN
Display Port	1 x VGA: max resolution up to 4096*2304@60Hz
SIM Card Slot	1 x Nano-SIM Card slot
CAN bus	2 x CAN2.0B (Optional)
GPIO	4DI/2DO (Optional, with 3.3V power)
Expansion Slot	
Mini-PCIe	2 x Mini PCIe slot, 1 x Mini PCIe for SSD
Antenna Hole	4 x SMA Holes
RF Communication	
Wi-Fi	802.11 a/b/g/n/ac (Optional)
	802.11 a/b/g/n/ac/ax (Optional)
Cellular	4G/LTE (Optional)
Bluetooth	BT 4.0/5.2 (Optional)
GNSS	GPS, Glonass, BeiDou, Galileo (Optional)
Audio	
Audio	1 x Line-out
Power	
Button	Power button
DC Input	8~36Vdc
Power Consumption	10W
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);
Battery	3350mAh, 7.2V (Optional, with switch)
Power Mode	ATX
Operating System	
Windows	Windows 7, Windows 10
Linux	Linux
Mechanical	
Dimensions (W x D x H)	240mm×180mm×59mm(9.45 x 7.09 x 2.32 inches)
Weight (N.W.)	2.1Kg(4.63 lbs)
Mounting	Desktop
Material	Aluminum
Environment	
Operating Temperature	-30~70°C
Storage Temperature	-40~85°C
Relative Humidity	5~95%, non-condensing

Dimensions