MVC-4246

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PARHELIA

DARVEEN

Rugged Embedded Computer for Vehicle with Intel® Core™ i-Processor

Overview

MVC series are rugged vehicle computers launched by Darveen for mining and other industries. They are equipped with Intel® J1900 or Core™-I low-power 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.

MVC 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/RTK, 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® Core™ i5-8265U/i7-8565U Processor
- Rugged enclosure and fanless design
- M12 I/O connectors and standard interfaces are reserved on the back
- -30~70°C Operating Temp.
- 9~36V DC input with ignition control
- Flexible expansion capability for WiFi, Bluetooth, LTE/5G, GPS, CAN2.0B
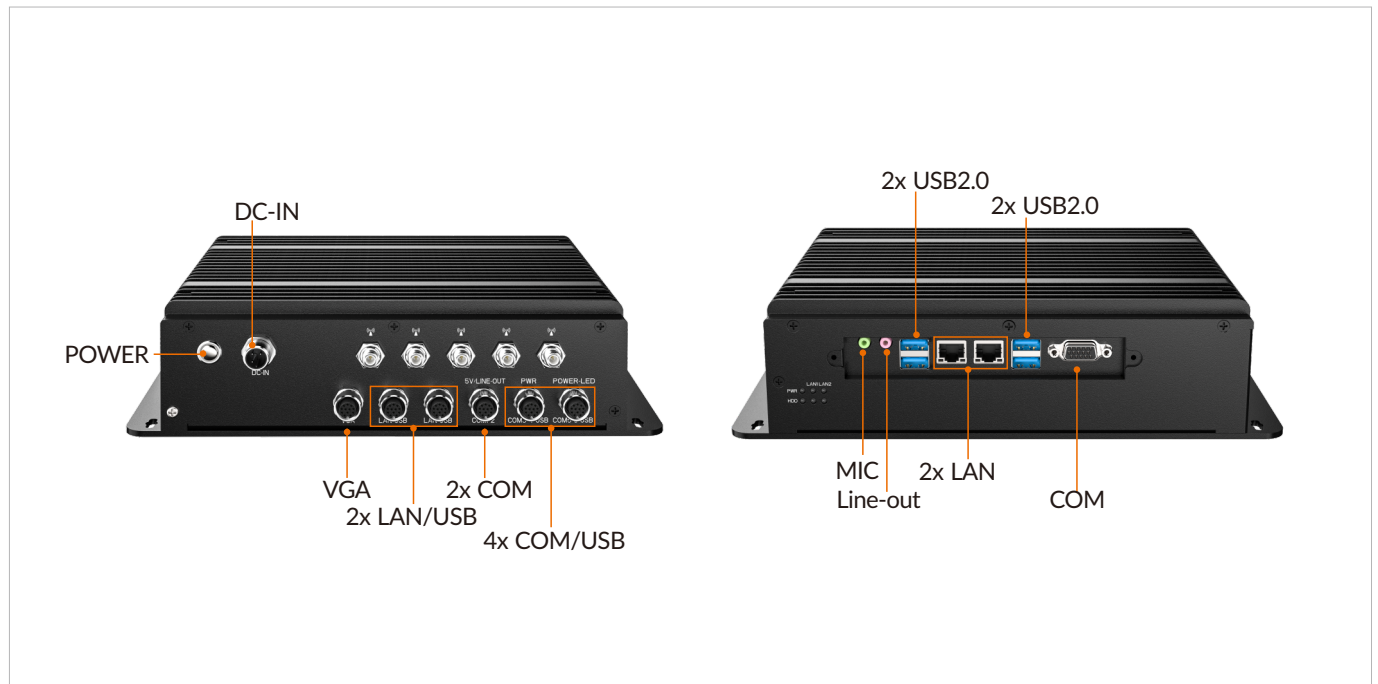
Operating Temp.   Power Input   Fanless   M12

I/O Interfaces

DC-IN

POWER

VGA
2x LAN/USB
2x COM
4x COM/USB

2x USB2.0
2x USB2.0

MIC
Line-out
2x LAN
COM

Specifications

System	
CPU	Intel® Core™ I5-8265U/I7-8565U processor
Memory	2-channel DDR4 SODIMM (Up to 32GB)
Storage	1 x Full-size Mini-PCIe for mSATA
GPU	Intel HD Graphics 620
I/O Ports	
USB Port	4 x USB2.0 (M12)
	4 x USB3.0(Type A)
Serial Port	6 x RS-232/485 (M12, Isolated)
Ethernet	2 x GbE LAN (M12)
	2 x GbE LAN (RJ45)
POE	2 x PoE/PoE+(Optional, 802.3af/at)
Display Port	1 x VGA (M12)
	1 x VGA (DB15)
CAN bus	2 x CAN2.0B (Optional)
Expansion Slot	
Mini-PCIe	2 x Mini PCIe slot, 1 x Mini PCIe for SSD
Antenna Hole	1 x M.2 3052 key B for 4G/5G
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, 1 x MIC
Power	
Button	Power button
DC Input	9~36Vdc (STD)
Power Consumption	12W (Power adapter must be at least 72W)
Ignition ON/OFF	Optional, 5~32V DC-in, Vehicles need to have ACC signalDelay start, default 5 seconds Delay shutdown, default 10 seconds(Can be set by jumper)
Battery	Optional, 10~28V DC-in, Built-in 3350mAH lithium batteryDelay start, default 5 seconds Delay shutdown, default 10 seconds(Can be set by jumper)
Power Mode	ATX/AT
Operating System	
Windows	Windows 10
Linux	Ubuntu
Mechanical	
Dimensions (W x D x H)	273.6 x 199.2 x 65.6 mm(10.78 x 7.84 x 2.58 inches)
Weight (N.W.)	4Kg(8.82 lbs)
Mounting	Desktop
Material	Aluminum and SGCC
Environment	
Operating Temperature	-30~70°C
Storage Temperature	-40~85°C
Relative Humidity	5~95%, non-condensing
Certification	
EMC	CE, FCC

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Dimensions

273.6mm
250mm
65.6mm
199.2mm
150mm