

Intel® Core™ i3/i5/i7 Processor Rugged Embedded Computer for Vehicle with 6x COM, 6x USB, 2x LAN

## Overview

VC series are rugged vehicle computers launched by Darveen for mining and other industries. They are equipped with Intel® 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.

## Features

- 11/12/13th gen Intel® Core™ i3/i5/i7 processor
- Rugged aluminum enclosure and fanless design
- -20 to 70°C Operating Temp.
- 9 to 36V DC input/Ignition control (optional)
- Flexible expansion capability for WiFi, Bluetooth, LTE, GPS, CAN, DIO



Operating Temp.



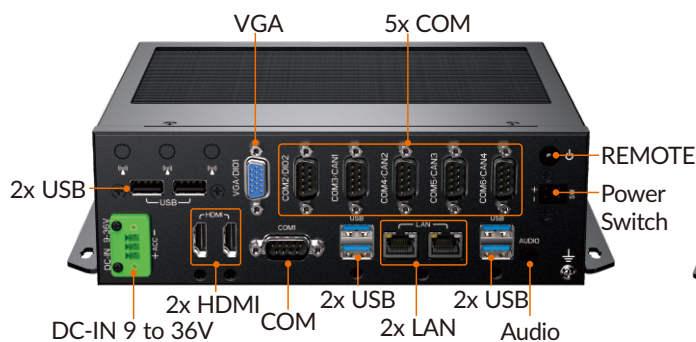
Power Input



Fanless



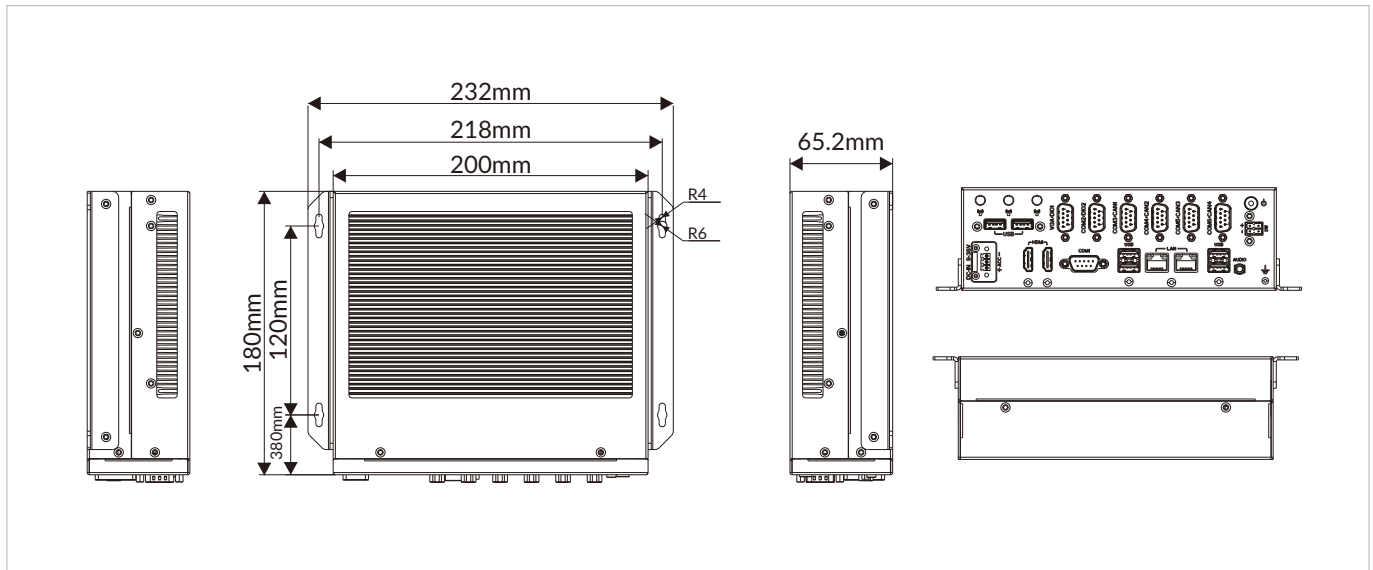
## I/O Interfaces



## Specifications

| System                |                                                        |                                             |                                             |
|-----------------------|--------------------------------------------------------|---------------------------------------------|---------------------------------------------|
| CPU                   | Intel® Core™ i3-1115G4/<br>i5-1155G7/i7-1195G7         | Intel® Core™ i3-1215U/<br>i5-1235U/i7-1255U | Intel® Core™ i3-1315U/<br>i5-1335U/i7-1355U |
| CPU TDP               | 15 to 55W                                              |                                             |                                             |
| Memory                | 1x DDR4 3200 MHz SO-DIMM up to 32GB                    |                                             |                                             |
| Storage               | 1x 2.5" SATA HDD<br>1x M.2 2280 NVME                   |                                             |                                             |
| BIOS                  | AMI UEFI                                               |                                             |                                             |
| TPM                   | BIOS                                                   |                                             |                                             |
| Watchdog Timer        | Software Programmable supports 256 levels system reset |                                             |                                             |
| I/O Ports             |                                                        |                                             |                                             |
| USB                   | 2x USB 2.0, 4x USB 3.0                                 |                                             |                                             |
| Serial                | 6x RS-232(2x RS-232/485)                               |                                             |                                             |
| Ethernet              | 2x RJ45 GbE Intel® I210AT                              |                                             |                                             |
| Display               | 2x HDMI, 1x VGA                                        |                                             |                                             |
| SIM Card Slot         | 1x SIM card slot (inside)                              |                                             |                                             |
| DIO                   | 16x Opto-isolated DIO (optional)                       |                                             |                                             |
| CAN bus               | 4x CAN 2.0B (optional)                                 |                                             |                                             |
| Antenna               | 3x SMA antenna holes                                   |                                             |                                             |
| Expansion Slot        |                                                        |                                             |                                             |
| Mini-PCIe             | 1x Full length mini PCIe, Half length mini PCIe        |                                             |                                             |
| M.2                   | 1x M.2 2280 NVME                                       |                                             |                                             |
| RF Communication      |                                                        |                                             |                                             |
| Wi-Fi                 | Mini PCIe                                              |                                             |                                             |
| Cellular              | Mini PCIe                                              |                                             |                                             |
| Bluetooth             | Mini PCIe                                              |                                             |                                             |
| GNSS                  | Mini PCIe                                              |                                             |                                             |
| Audio                 |                                                        |                                             |                                             |
| Audio                 | Mic in, line out                                       |                                             |                                             |
| Power                 |                                                        |                                             |                                             |
| Button                | Yes                                                    |                                             |                                             |
| Remote Power On/Off   | 4-Pin Remote SW&Power LED                              |                                             |                                             |
| DC Input              | 9-36VDC                                                |                                             |                                             |
| Ignition ON/OFF       | ACC function (optional)                                |                                             |                                             |
| Power Mode            | AT/ATX                                                 |                                             |                                             |
| Operating System      |                                                        |                                             |                                             |
| Windows               | Windows 10, windows 11                                 |                                             |                                             |
| Linux                 | Ubuntu                                                 |                                             |                                             |
| Mechanical            |                                                        |                                             |                                             |
| Dimensions (WxDxH)    | 200 x 180 x 65mm (7.87 x 7.09 x 2.56 inches)           |                                             |                                             |
| Weight (N.W.)         | 3kg (6.61lbs)                                          |                                             |                                             |
| Mounting Mode         | Wall mount                                             |                                             |                                             |
| Material              | Aluminum alloy                                         |                                             |                                             |
| Environment           |                                                        |                                             |                                             |
| Operating Temperature | -20 to 70°C (-4 to 158°F)                              |                                             |                                             |
| Storage Temperature   | -40 to 85°C(-40 to 185°F)                              |                                             |                                             |
| Relative Humidity     | 10% to 95% @40°C (104°F), non-condensing               |                                             |                                             |
| Certification         |                                                        |                                             |                                             |
| EMC                   | CE, FCC Class A                                        |                                             |                                             |

## Dimensions



## Ordering Information

| Part No.       | Description                                                     |
|----------------|-----------------------------------------------------------------|
| VC-2300-1115G4 | i3-1115G4 VC-2300 with 6x COM, 2x LAN, 6x USB, 2x HDMI, 9-36VDC |
| VC-2300-1155G7 | i5-1155G7 VC-2300 with 6x COM, 2x LAN, 6x USB, 2x HDMI, 9-36VDC |
| VC-2300-1195G7 | i7-1195G7 VC-2300 with 6x COM, 2x LAN, 6x USB, 2x HDMI, 9-36VDC |
| VC-2300-1215U  | i3-1215U VC-2300 with 6x COM, 2x LAN, 6x USB, 2x HDMI, 9-36VDC  |
| VC-2300-1235U  | i5-1235U VC-2300 with 6x COM, 2x LAN, 6x USB, 2x HDMI, 9-36VDC  |
| VC-2300-1255U  | i7-1255U VC-2300 with 6x COM, 2x LAN, 6x USB, 2x HDMI, 9-36VDC  |
| VC-2300-1315U  | i3-1315U VC-2300 with 6x COM, 2x LAN, 6x USB, 2x HDMI, 9-36VDC  |
| VC-2300-1335U  | i5-1335U VC-2300 with 6x COM, 2x LAN, 6x USB, 2x HDMI, 9-36VDC  |
| VC-2300-1355U  | i7-1355U VC-2300 with 6x COM, 2x LAN, 6x USB, 2x HDMI, 9-36VDC  |