

## Introduction

VC-3610 is in-vehicle computer for specially use in Motorcade, Freight vehicles, Bus and Taxi. With four M12 PoE ports and more functions of the flexible scalability, like LTE/3.5G, WIFI, GPS, Bluetooth. etc and wide temperature design of -40~70°C, Regarding the vehicle power management system (Power Ignition and off, Delay on/off control), it can prevent the damage of surge, electric noise of the damage system impact, and effectively protect the system from damage of vehicle emergency power off. VC-3610 support dual hot swappable SATA storage, it can be convenient for users to backup and upgrade data.

## Features

- Intel Gen 4 Core i3/i5/i7 Processor
- Wireless support LTE, 3.5G w/ SIM Card, WLAN  
GPS Dead Reckoning, Bluetooth
- Support 4 x Power Over Ethernet (PoE)
- Smarter Vehicle Power Ignition for Variety Vehicle
- Support Dual Hot Swappable SATA Storage
- Support 1 x CAN Bus 2.0B (Optional)



## Applications

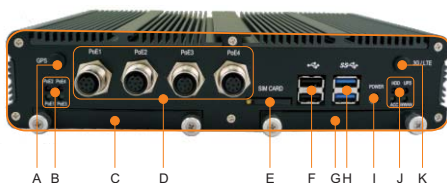
- Fleet Management
- Healthcare
- Warehousing
- Logistics Express
- Special Vehicle



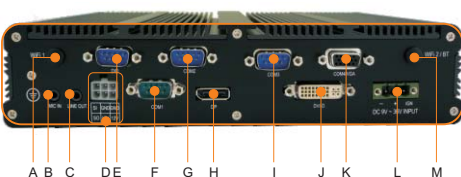
## Specifications

Hardware System	CPU	<ul style="list-style-type: none"> <li>- Intel Gen 4 Core i7-4650U 1.7GHz up to 3.3GHz</li> <li>- Intel Gen 4 Core i5-4300U 1.9GHz up to 2.9GHz</li> <li>- Intel Gen 4 Core i3-4010U 1.7GHz</li> </ul>	Software	Audio	<ul style="list-style-type: none"> <li>- 1 x Line-out</li> <li>- 1 x Mic-in (Line-in optional)</li> </ul>
	Memory	<ul style="list-style-type: none"> <li>- 2 x DDR3L 1600 MHZ SO-DIMM up to 16GB</li> </ul>		Expansion Bus	<ul style="list-style-type: none"> <li>- 3 x Mini-card Slots</li> <li>- 1 x SIM Card Socket Supported Onboard with eject</li> </ul>
	Chipset	<ul style="list-style-type: none"> <li>- QM87</li> </ul>		Operating System	- Windows XP Pro, Windows 7 Pro
	Graphics	<ul style="list-style-type: none"> <li>- Intel® HD Graphics 5000</li> <li>- DirectX Video Acceleration (DXVA) for Accelerating Video</li> <li>- Processing - Full AVC/VC1/ MPEG2 HW Decode</li> <li>- Supports DirectX 11/10.1/10/9 and OpenGL 4.0</li> <li>- Up to 4096 x 2304 Resolution</li> </ul>	Qualification	Certifications	- CE, FCC Class A, EMark Compliance, En50155, EN50121
ATA LAN Chipset	ATA	<ul style="list-style-type: none"> <li>- 2 x Serial ATA 2.0 Ports</li> </ul>		Operating Temp.	- -40°C~70°C (Default CPU 17Watt)
	LAN Chipset	<ul style="list-style-type: none"> <li>- Intel I210-AT Gb/s Ethernet Controllers Onboard</li> <li>- Support PXE and WOL</li> </ul>		Storage Temp.	- -40~80°C
	Watchdog	<ul style="list-style-type: none"> <li>- 1~255 Level Reset</li> </ul>		Relative Humidity	- 0% RH – 95% RH
Power Requirement	Power Input	<ul style="list-style-type: none"> <li>- 9~36V DC Power Input(Automatics Recovery Short Circuit Protection)</li> </ul>	Environmental	Vibration (random)	- 2.5g@5~500 Hz with SSD
	Power Management	<ul style="list-style-type: none"> <li>- Vehicle Power Ignition for Variety Vehicle</li> </ul>		Vibration Operating	- MIL-STD-810F, Method 514.5, Category 20, Ground Vehicle-Highway
	Power Off Control	<ul style="list-style-type: none"> <li>- Power off Delay Time Setting by Software, Default is 5 Mins</li> </ul>		Truck Storage	- MIL-STD-810F, Method 514.5, Category 24, Integrity Test
	Backup Battery	<ul style="list-style-type: none"> <li>- Internal Battery Kit for 10 Mins Operating (Optional)</li> </ul>		Shock	- Operating: MIL-810F, Method 516.5, Procedure I; - Trucks and semi-trailers: 40G(11ms) with SSD
Storage	Type	<ul style="list-style-type: none"> <li>- 2 x 2.5" Drive Bay for SATA Type HDD/SSD, Support RAID 0, 1</li> <li>- 1 x Mini-PCIe DOM</li> </ul>	Mechanical	Crash Hazard	- Operating: MIL-810F, Method 516.5, Procedure V, Ground equipment=100g
				Construction	- Aluminum alloy
I/O Ports	Serial Port	<ul style="list-style-type: none"> <li>- 2 x RS-232</li> <li>- 2 x RS-232/485 (Auto Direction Control)</li> </ul>		Mounting	- Wall-mount, VESA-mount
	USB Port	<ul style="list-style-type: none"> <li>- 2 x USB 3.0</li> <li>- 2 x USB 2.0</li> </ul>		Weight	- 1.78Kg (bare-bone)
	LAN	<ul style="list-style-type: none"> <li>- 4 x M12 Ports for GbE PoE (15.4W per port)</li> </ul>		Dimensions	- 250 x 150 x 55 mm
	Video Port	<ul style="list-style-type: none"> <li>- 1 x DVI-D Connector on Rear I/O</li> <li>- 1 x DP Port Connector on Rear I/O (Support Dual Independent Display)</li> </ul>	Order Information	VM-705W	7"(16:9) In-Vehicle Display with Touch Screen, USB Interface, 400nits, 9~32V DC Power Input, VESA Mounting
	GPIO Port	<ul style="list-style-type: none"> <li>- 4 in and 4 out</li> </ul>		VM-800W	8"(16:9) In-Vehicle Display with Touch Screen, USB Interface, 400nits, 12V DC Power Input, VESA Mounting
				VM-102W	10.2"(16:9) In-Vehicle Display with Touch Screen, USB Interface, 400nits, 9~32V DC Power Input, VESA Mounting
				VM-121H	12.1"(4:3) Ultra-Grade In-Vehicle Display with Touch Screen, USB Interface, 1000nits, 9~32V DC Power Input, VESA Mounting

## Input/Output Ports



- A: GPS Antenna Connector
- B: PoE LED Indicator
- C: Hot Swappable SATA HDD/SSD
- D: 4xPoE Connector(M12)
- E: SIM Card Socket
- F: 2xUCB2.0
- G: Hot Swappable SATA HDD/SSD
- H: 2xUCB3.0
- I: Power Button
- J: HDD/UPS/ACC/WWAN LED Indicator
- K: 3G/LTE Antenna Connector



- A: WiFi 1 Antenna Connector
- B: Mic In
- C: Line Out
- D: +12V DC Output
- E: DIO
- F: COM1
- G: COM2
- H: DP
- I: COM3
- J: DVI-D
- K: COM4/VGA
- L: 9~36V DC Input
- M: WiFi 2/BT Antenna Connector