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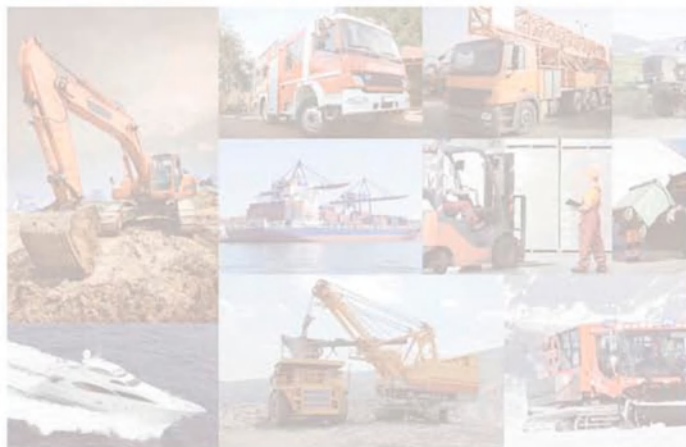
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# VM-521

10.4" Ultra-Rugged Vehicle Mount Computer



## Ultra-rugged looks, stunning performance

- 0.1 nits hyper dimming to 1,000 nits truly sunlight readable
- The latest Quad-Core processor
- IP66, MIL-STD-810G
- Wide range power (9-36 or 18-75 VDC), galvanic isolation
- GNSS, Bluetooth, 802.11 ac
- Built-in backup battery
- Ethernet and isolated COM, CAN, DIO ports
- Optical bonding/PCT/defroster by request
- Optional video surveillance function
- Reserved holes for vehicle/barcode scanner mounting



### Superb Visibility Anytime, Anywhere

Backlight adjustable display offers outstanding visibility in wide range of lighting conditions, which meets MIL-STD-85762A standard.

### The Next Generation of Wi-Fi

The latest Wi-Fi standard 802.11 ac provides faster processing, broader coverage, more stable and efficient transmission.



802.11ac



### Industrial Communications for Field Use

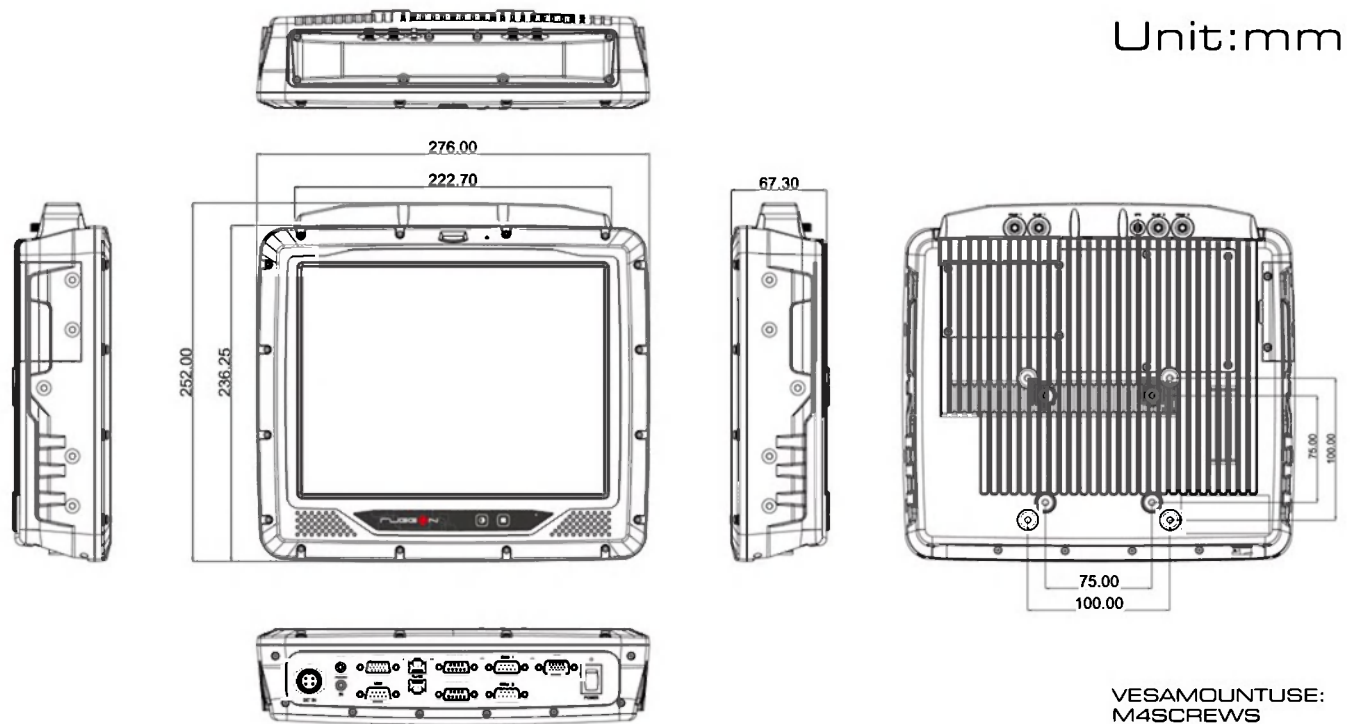
A number of isolated ports protect VM-521 from ground loop and improve system reliability, meeting NMEA0183/NMEA2000 physical layer standard.

### Optimal Vehicle Power Design

Combined with wide range power (9-36 VDC / 18-75 VDC) and built-in battery, VM-521 fulfills diversified vehicle power requirements



## Features



## Specifications

### CPU

- Intel® Quad-Core ATOM E3845 1.91 GHz (Bay Trail-I)

### Memory

- 4GB DDR3L SDRAM, up to 8GB (service door)

### Storage

- 64GB SATA SSD, SD slot x 1 (service door)

### Display

- 10.4-inch 1024 x 768 XGA; 70,000 hrs backlight life
- 1,000 nits sunlight readable (MIL-STD-85762A) to 0.1 nits hyper dimming for night mode operation
- Anti-reflection tempered 5-wire resistive touch panel
- PCT (Gorilla glass), defroster by request

### RF

- 802.11 ac/a/b/g/n
- Bluetooth v4.0
- GNSS(GPS /QZSS or GLONASS)
- WWAN by request
- Both built-in and external antennas

### Power Input / Battery

- Wide range isolated 9~36 or 18~75VDC
- Battery : 3,000 mAh, 7.4V

### Housing

- Die-cast aluminum alloy, fanless design

### Mounting

- VESA 75 x 75, 100 x 100 mm

### Video Capture

- Optional video input up to 4 ports w/ comprehensive SDK included

### I/O Interfaces

- Dual Gigabit Ethernet support teaming / redundant function
- RS-232 x 1 + 5V support; 3KVrms isolation protection for RS-422/485 x 1 (RS-485 supports auto flow control and NMEA 0183 physical layer)
- USB x 2 compliant with USB 2.0 and 1.1 Host
- 2.5 KVrms isolation protection CAN x 2, NMEA 2000 physical layer support
- 3KVrms isolation protection for 4 DI + 4 DO
- Stereo microphone x 1 or line-in, stereo HD audio x 1
- Waterproof speaker x 2

### Physical Characteristics

- Dimensions : 276 (W) x 252 (H) x 67.3 mm (D)
- Weight : 3.8kg

### Certification

- CE, FCC, CB

### Operating System

- Windows Embedded 8.1 Industry 64-bit
- Windows Embedded Standard 7 64-bit
- Windows 7 Professional 64-bit
- Windows Embedded Standard 8 64-bit
- Linux

### Environment (In accordance w/ MIL-STD-810G)

- IP66
- Operating temperature -30 to 55°C
- Shock : 40G, 11ms terminal sawtooth
- Vibration : common carrier / composite two-wheeled trailer / composite wheeled vehicle
- Humidity 5-95%, non-condensing



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