



## RuggVMC VM-521

10.4" Rugged In-Vehicle Terminal



IP65



MIL-STD-810G



1000 nits



Defrost / Defog



SAE J1939

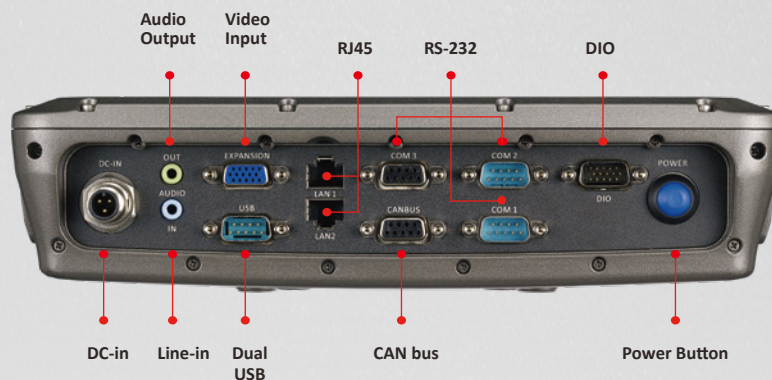
18~60VDC



9~32VDC

- ◆ 1000 nits high brightness display supports defroster
- ◆ IEC 60529 IP66, MIL-STD-810G
- ◆ Smart power management with wide range DC power input

- ◆ Health readiness via SAE J1939
- ◆ Industrial communications for field use
- ◆ Optional video surveillance function



# Specifications

## System

- ◆ Intel® Atom® E3845 processor 1.91GHz, optional Intel® Atom® E3827 processor 1.75GHz
- ◆ 4GB DDR3L SODIMM, expandable to 8GB
- ◆ 2.5" SSD (64GB default), SD slot
- ◆ Built-in 3-axis G-sensor, dual speaker

## Display

- ◆ 10.4" XGA TFT LCD with LED backlight (1024 x 768)
- ◆ 1000 nits brightness
- ◆ 5-wire resistive touch supports defroster function

## Communication

- ◆ Dual Gigabit Ethernet (RJ45)
- ◆ Wi-Fi 802.11 a/b/g/n/ac
- ◆ Bluetooth V4.0 Class 2
- ◆ Optional 4G LTE / GPRS / HSPA+
- ◆ Optional GNSS (GPS / QZSS or GLONASS)

## Function Button

- ◆ Programmable button x 1, brightness adjustment x 1
- ◆ Optional defrost / defog button x 1

## I/O Interface

- ◆ R S-232 x 3 (COM1 with power supported)
- ◆ USB 2.0 x 2
- ◆ CAN bus (SAE J1939 / OBD II supported) x 1
- ◆ DI x 4, DO x 4
- ◆ Audio headset jack x 1
- ◆ Optional video input x 4
- ◆ DC-in x 1

## Certifications

- ◆ CE, FCC, CB

## Software

- ◆ DashON

## Power management

- ◆ 9~32 VDC input, optional 18~60 VDC
- ◆ Optional ignition sense
- ◆ Wake on RTC
- ◆ UPS backup battery

## Rugged Features

- ◆ IEC 60529 IP66
- ◆ Vibration (operating) : MIL-STD-810G, Method 514.7 c2/c3/c4
- ◆ Shock (operating) : MIL-STD-810G, 40G at 11ms Terminal / Sawtooth
- ◆ Salt fog : MIL-STD-810G, Change1, Method 509.6

## Environmental (Tested to MIL-STD-810G standards)

- ◆ Operating temperature -30°C to +55°C
- ◆ Storage temperature -30°C to +70°C
- ◆ Humidity 95%, non-condensing

## Mechanical Spec

- ◆ VESA 75 / 100
- ◆ Dimension (W x H x D) : 276 x 252 x 67.3 (mm)
- ◆ Weight : 3.8 kg

## In-box Accessories

- ◆ DB9 series to dual USB cable
- ◆ External power cable

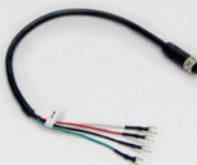
## Ordering Information

- ◆ **VM-521-HR (P/N : 71-8113200-A7012)**  
VM-521 with Intel Atom E3845 1.91GHz, 4GB DDR3L, 64GB SSD, and Wi-Fi / BT
- ◆ **VM-521-HRD (P/N : 71-8113200-A7010)**  
VM-521 with Intel Atom E3845 1.91GHz, 4GB DDR3L, 64GB SSD, Wi-Fi / BT and defrost function
- ◆ **VM-521-LR (P/N : 71-8113200-A7007)**  
VM-521 with Intel Atom E3827 1.75GHz, 4GB DDR3L, 64GB SSD, and Wi-Fi / BT
- ◆ **VM-521-LRD (P/N : 71-8113200-A7011)**  
VM-521 with Intel Atom E3827 1.75GHz, 4GB DDR3L, 64GB SSD, Wi-Fi / BT and defrost function

# Accessories



Mounting Kit



Power Cable



Antenna

I. OBD II by request



[www.ruggon.com](http://www.ruggon.com) e-mail:[info@ruggon.com](mailto:info@ruggon.com)

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