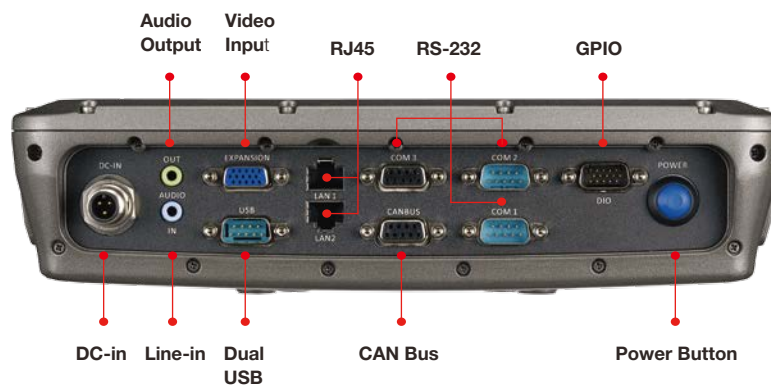


**ruggVMC**  
**VM-521**  
10.4" Rugged  
In-Vehicle Terminal



- ◆ 1000 nits high brightness display supports defroster
- ◆ IEC 60529 IP66, MIL-STD-810G
- ◆ Health readiness via SAE J1939 / OBDII
- ◆ Smart power management with wide range DC power input
- ◆ Industrial communications for field use
- ◆ Optional video surveillance function

## I/O Diagram



## Specifications

### System

- ◆ Intel® Atom™ E3845 1.91 GHz , optional Intel® Atom™ E3827 1.75 GHz
- ◆ 4 GB DDR3L SODIMM, expandable to 8 GB
- ◆ 2.5" SSD (64 GB default), SD slot
- ◆ Built-in 3-axis G-sensor, dual speaker
- ◆ Windows 10 IoT, Windows Embedded 8, Windows Embedded 7

### Display

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

### Communication

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

### Function Button

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

### I/O Interface

- ◆ RS-232 x 3 (COM1 with power supported)
- ◆ USB 2.0 x 2
- ◆ Gigabit RJ45 x 2
- ◆ GPIO x 4
- ◆ CAN bus (SAE J1939 / OBD II supported)
- ◆ Audio output jack x 1, Line-in / MIC jack x 1

### I/O Interface

- ◆ Optional video input x 4
- ◆ DC-in x1

### Power management

- ◆ 9~32 VDC input, optional 18~60 VDC
- ◆ Optional ignition sense
- ◆ Remote power on, wake on SMS / RTC
- ◆ UPS backup battery (7.5V, 2900 mAh)

### 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
- ◆ Operating temperature : -30° C to 55° C (-22°F to 131°F)

### Mechanical Spec

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

### Software

- ◆ DashON

### In-box Accessories

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

## Ordering Information

### ◆ VM-521-HR (P/N : 71-8I13200-A7006)

VM-521 with Intel Atom E3845 1.91Ghz, 4GB DDR3L, 64GB SSD, and Wi-Fi / BT

### ◆ VM-521-HRD (P/N : 71-8I13200-A7004)

VM-521 with Intel Atom E3845 1.91Ghz, 4GB DDR3L, 64GB SSD, Wi-Fi / BT and defrost function

### ◆ VM-521-LR (P/N : 71-8I13200-A7001)

VM-521 with Intel Atom E3827 1.75Ghz, 4GB DDR3L, 64GB SSD, and Wi-Fi / BT

### ◆ VM-521-LRD (P/N : 71-8I13200-A7005)

VM-521 with Intel Atom E3827 1.75Ghz, 4GB DDR3L, 64GB SSD, Wi-Fi / BT and defrost function

## Peripherals



Mounting Kit



Power Cable



Antenna

