

# VMC 1000

7-inch All in One Vehicle Computer with  
Touch Screen and Smart Brightness Control



## Main Features

- ♦ 7" WVGA TFT LCD with LED backlight
- ♦ Compact and fanless design
- ♦ Built-in Intel® Atom™ E640 1.0GHz processor
- ♦ Wake on RTC /SMS
- ♦ GPS receiver on board
- ♦ Variety wireless communication options
- ♦ Wide Range DC input from 6~36V
- ♦ Compliant with IP54
- ♦ Certified by CE/ FCC/ e13 Mark

## Product Overview

VMC 1000, a 7-inch all in one vehicle computer, is designed for the transportation application. Adopting the latest low power consumption processor, Intel® Atom™ E640, it integrates the high resolution LCD with the brightness of 400 nits and 4-wire resistive touch sensor. VMC 1000 does not compromise with its space to scarify its functional features. It provides RS-232/422/485, USB 2.0, GPIO and LAN signal via DB37 connector to secure the cable simultaneously in the vehicle vibration. Its mounting hole is compatible with VESA75 and can be installed in the vehicle with limited space via RAM mount kits.

## Specifications

### LCD Panel

- ♦ 7-inch TFT LCD Panel with LED Backlight
- ♦ 800 x 480 pixels (WVGA)
- ♦ Brightness: 500 cd/m<sup>2</sup> (typical)
- ♦ Contrast Ratio: 600:1 (typical)

### Touch Screen Sensor

- ♦ 4-wire resistant touch
- ♦ Anti-Glare Coating Surface
- ♦ Transmission Rate: 82 ± 3%

### CPU & Chipset

- ♦ Intel® Atom™ E640 1.0GHz
- ♦ EG20T

### Memory

- ♦ On-board DDR2 1GB

### Storage Interface

- ♦ 1 x mSATA

### Expansion

- ♦ Mini-PCIe socket (PCIe + USB+SATA) x 1 (for WLAN module)
- ♦ Mini-PCIe socket (USB) x 1 (for 3.5G module)

### Front Side

- ♦ On Screen Display Buttons x 5 Power On/ Off Volume Control (+/-) Brightness Control (+/-)
- ♦ Light Sensor
- ♦ 2 x LED indicators
- ♦ 2 x Built-in Speakers (1W)

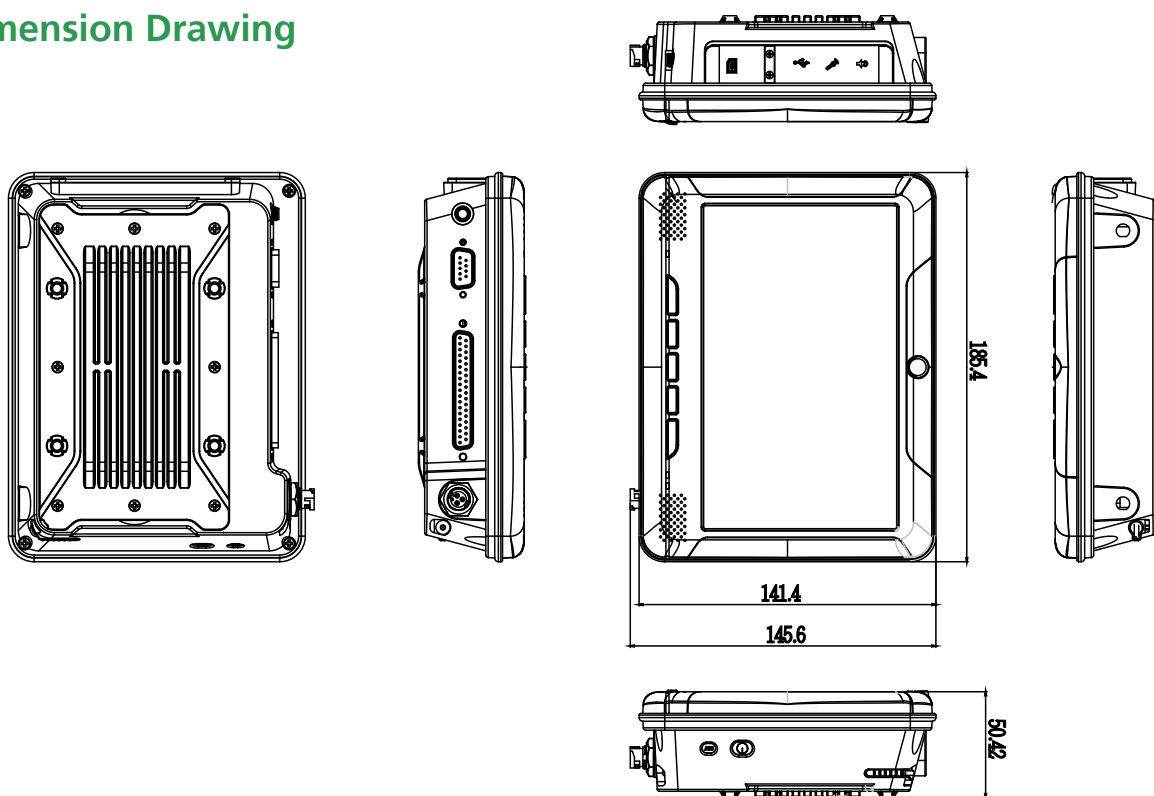
### Lateral Side I/O

- ♦ 1 x Line-in
- ♦ 1 x Line-out
- ♦ 1 x USB
- ♦ 1 x SIM slot
- ♦ 1 x Power Button
- ♦ 1 x Reset Button

### Bottom Side

- ♦ 1 x DB9 male connector (RS-232)
- ♦ 1 x DB37 female connector (1x LAN ; 2x USB ; 1x RS232 ; 1 x RS422/485 ;6 x GPIO ; 1x CAN)
- ♦ 6~36V Wide Range DC power input
- ♦ 1 x SMA connector for GPS antenna

## Dimension Drawing



### Optional Communication Module

- 1 x Wireless LAN 802.11 b/g/n
- 1 x WWAN module
- 1 x Bluetooth module

### Power Management

- Selectable boot-up & shut-down voltage for low power protection
- HW design ready for 8-level delay time on/off at user's self configuration
- Power on/ off ignition, software detectable
- Support S4 suspend mode; wake on RTC/ SMS

### Dimensions

- 185.4 mm (W) x 141.4 mm (D) x 50.42 mm (H) (7.3" x 5.57" x 1.99")
- 1 Kg (2.20 Lb)

### Housing

- Plastic case with aluminum die casting heatsink
- Compliant with IP54

### Environment

- Operating temperatures Ambient with air: -20°C to 50°C
- Storage temperatures: -30°C to 85°C
- Relative humidity: 10% to 90% (non-condensing)
- Vibration (random): 2g @5~500 Hz
- Vibration
  - Operating: MIL-STD-810F, Method 514.5, Category 20, Ground Vehicle – Highway Truck
  - Storage: MIL-STD-810F, Method 514.5, Category 24, Integrity Test

### Shock

- Operating: MIL-STD-810F, Method 516.5, Procedure I, Trucks and semi-trailers= 20g
- Crash Hazard: MIL-STD-810F, Method 516.5, Procedure V, Ground equipment= 75g

### Optional Communication Module

- CE approval
- FCC Class B
- e13 Mark

## Ordering Information

### • VMC 1000 (P/N: 10VC0100000X0)

7-inch All in One Vehicle Mount Computer with Touch Screen and Smart Brightness Control and Intel® Atom™ E640 1.0Ghz processor with 1GB DDR2, GPS module and GPS antenna

### • Optional Accessories

7-inch All in One Vehicle Mount Computer with Touch Screen and Smart Brightness Control and Intel® Atom™ E640 1.0Ghz processor with 1GB DDR2, GPS module and GPS antenna

Part No.	Description
0VK0006013X0	Wireless mini card kit, Ralink 802.11b/g/n 2T2R, QCOM: Q802XKN5F, w/ antenna & cable (without assembly in NEXCOM)
10VK0006000X0	Sierra MC8790V kit, GPRS/ UMTS/ HSDPA, w/ internal cable, antenna & packing (without assembly in NEXCOM)
10VK0006007X0	Bluetooth kit, QCOM: QBTM400-01(V7), w/ antenna & cable (without assembly in NEXCOM)
60233SAM05X00	GPS antenna/ 5m/ SMA180P
60233SAM07X00	GSM/ GPRS antenna, SMA, support 850/ 900/ 1800/ 1900
60233SAM30X00	GPS+GSM combo antenna 5M/ SMA180P
60233SAM17X00	GPRS/ UMTS/ HSDPA antenna, SMA, support 850/ 900/ 1800/ 1900/ 2100