# VMC 3000/3001



#### Main Features

- 10.4" XGA TFT LCD monitor
- Compact and fanless design
- Built-in Intel® Atom™ D2550 processor
- Automatic/manual brightness control
- On screen F1 ~ F10 function key
- Wake on RTC/SMS/LAN

- Variety wireless communication options
- Robust design with Die-cast aluminum
- All enclosure compliant with IP65
- Wide range DC input from 9 ~ 36V
- Optional sunlight readable solution with 1000nits

### **Product Overview**

VMC 3000/3001, 10.4-inch all in one robust vehicle mount computer, is designed for the transportation, warehouses and material handling application. Adopting the latest high performance processor Intel® Atom™, it integrates the high resolution LCD with the brightness of 400 nits and 5-wire resistive touch sensor. VMC 3000/3001 is extreme ruggedness, the aluminum enclosure compliant with NEMA4/IP65 is designed against vibration, dust, moisture and chemical impacts. It does not compromise with its space to scarify its functional features. It provides RS-232, USB 2.0, CFast, LAN and two mini-PCIe extensions for variety communication options. The latitude of mounting methods offers easy installation in the vehicles. Thus, the VMC 3000/3001 is an ideal solution for vehicle terminal on forklifts, straddle carriers, truck, mining vehicles, construction machines and marine.

## **Specifications**

#### General

- Cooling System: Fanless
- Enclosure: Die-cast aluminum
- Mounting: Support VESA 75/100, Panel and stand mounting
- Three SMA Type antenna connectors of BT/Wi-Fi/WWAN
- Power Input: 9 ~ 36VDC input with Ignition
- Power Consumption: 26W typical
- Ingress Protection: IP65 (VMC 3000 only Front Panel IP65)
- + Dimension: 290mm (W) x 230mm (H) x 68mm (D) (11.4" x 9" x 2.7")
- Weight: 3Kg, 6.61Lb

#### LCD Panel

- 10.4-inch TFT LCD panel with LED backlight
- 1024 x 768 pixels (XGA)
- Brightness: 400 cd/m² (typical)
- Optional high brightness for sunlight-readable with 1200cd/m<sup>2</sup>
   After touch screen is 1000 cd/m<sup>2</sup>
- Contrast ratio: 600:1 (typical)

#### **Touch Screen Sensor**

- 5-wire resistant touch
- Anti-glare coating surface
- Transmission rate: 81 ± 3%

## CPU & Chipset

- Intel® Atom™ D2550 1.86GHz
- Intel® ICH10R

#### Memory

On-board DDR3 2GB (up to 4GB)

#### **Expandable Storage**

- 1 x CFast
- 1 x 2.5" SATA SSD bay

#### Expansion

- 1 x mini-PCle socket (PCle + USB) for WLAN option
- 1 x mini-PCle socket (USB) x 1 for WWAN option
- 1 x OBDII module with J1939 for option

#### I/O Interface-Front

- On screen display buttons x 5
  - Power on/off
  - Volume control (+/-)
  - Brightness control (+/-)
- Light sensor
- 4 x LED indicators (Power on/off, Storage, Warning, Shift)
- F1 ~ F10 functions key
- 2 x Built-in 2W speakers

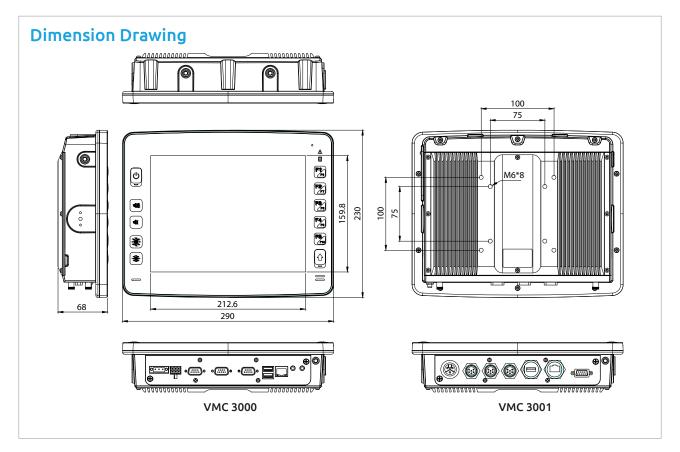
#### I/O Interface-Lateral

- 1 x CFast card slot
- System reset button
- USB 2.0 host type A connector

#### I/O Interface-Bottom for VMC 3000

Power connector (power, ignition, ground)





- 1 x RS-232
- 1 x RS-232 with either 0, 5 or 12V on pin 9 for external devices
- 2 x USB 2.0 type A
- 1 x RJ45 10/100/1000Base-T
- 1 x Mic-in, 1 x Line-out
- 1 x 3GPI and 3GPO or CAN Bus with J1939 optional Digital Input (source type; 0 ~ 30V)
   Digital Output (sink type; 20mA max)
- SMBus to support VTK 61B back up smart battery with charger
- 1 x SMA-type GPS antenna connector
- 1 x 6 pins for DC output (5V/1A & 12V/1A)

#### I/O Interface-Bottom for VMC 3001 (Waterproof)

- 1 x SMA-type GPS antenna connector
- 1 x 3 pin for power input (power, ignition, ground)
- 1 x DB9 for full RS232
- 1 x 10/100/1000Base-T (Waterproof type RJ45)
- 1 x USB (Waterproof USB type A)
- 1 x 6 pins for Mic in, line out
- +  $1 \times 10$  pins for CAN Bus with J1939 optional, GPI x 3 and GPO x 3
- 1 x 6 pins for DC output (5V/1A & 12V/1A)

## Communication Module

- 1 x GPS module
- 1 x WLAN or Bluetooth module for optional
- 1 x WWAN module for optional

#### 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

## Operating System

- WES2009
- WES 7E
- Win7 Pro Embedded

#### Environment

- Operating temperatures: Ambient with air -30°C to 60°C
- Storage temperatures: -30°C to 70°C
- Relative humidity: 10% to 90% (non-condensing)
- Vibration (random): 2g @5 ~ 500Hz
- Vibration
- Operating: MIL-STD-810G, 514.6 Procedure 1, Category 4 Storage: MIL-STD-810G, 514.6 Procedure 1, Category 24
- Shock
- Operating: MIL-STD-810G, Method 516.6, Procedure I, trucks and semi-trailers= 20a
- Crash hazard: MIL-STD-810G, Method 516.6, Procedure V, ground equipment= 75g

#### Standards/Certifications

• CE approval , FCC Class B

## **Ordering Information**

- VMC 3000 (P/N: 10VC0300003X0)
   10.4" rugged vehicle mount computer with Intel® Atom™ D2550,
  - 10.4" rugged vehicle mount computer with Intel® Atom™ D2550 2G DDR3, touch screen, Front Panel IP65
- VMC 3001 (P/N: 10VC0300100X0)
   10.4" rugged vehicle mount computer with Intel® Atom™ D2550,
   2G DDR3, touch screen, IP65
- VMC 3010 (P/N: 10VC0301000X0 ) 10.4" rugged vehicle mount computer with Intel® Atom™ D2550, 2G DDR3, touch screen, Front Panel IP65, Sunlight readable
- VMC 3011 (P/N: 10VC0301100X0)
   10.4" rugged vehicle mount computer with Intel® Atom™ D2550,
   2G DDR3, touch screen, IP65, Sunlight readable

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We reserve the right to change specifications and product descriptions at any time without prior notice.

Vehicle Mount Computer

Last update: 01/13/2017