VMC 3500/3501

Main Features

- 10.4" XGA TFT LCD monitor
- Compact and fanless design
- Built-in Intel® Core™ i7-2610UE 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 1200nits

Product Overview

VMC 3500/3501, 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® Core™ i7, it integrates the high resolution LCD with the brightness of 400 nits and 5-wire resistive touch sensor.

VMC 3500/3501 is extreme ruggedness, the aluminum enclosure compliant with 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 3500/3501 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: 32W typical
- Ingress Protection: 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
- 1024x 768 pixels (XGA)
- Brightness: 400 cd/m² (typical)
- Optional high brightness for sunlight-readable with 1200cd/m² After touch screen is 960cd/m²
- Contrast ratio: 500:1 (typical)

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

CPU & Chipset
- Intel® Core™ i7 2610UE 1.5GHz
- Intel® QM67

Memory
- One 204-pin DDR3 1333MHz SO-DIMM slot (up to 8GB)

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

Expansion
- 1 x Mini-PCIe socket (PCIe + USB) for WLAN option
- 1 x Mini-PCIe socket (USB) x 1 for WWAN option
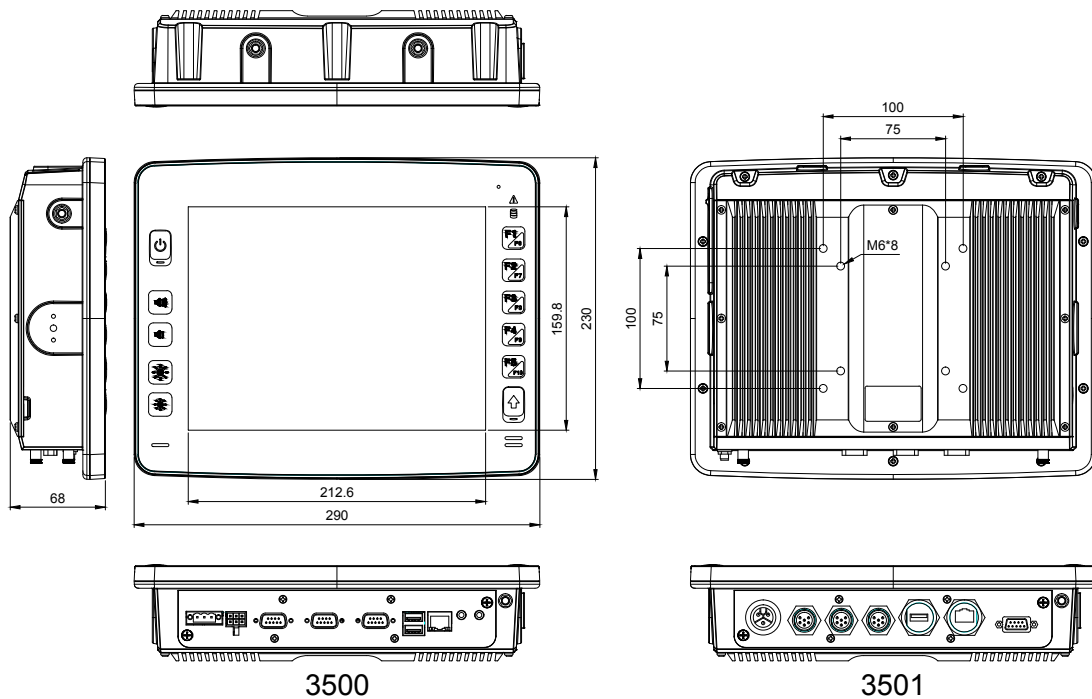- 2 x CAN Bus module with J1939/J1708 for option

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

Dimension Drawing

3500

3501

I/O Interface-Bottom
- Power connector (power, ignition, ground)
- 1 x RS-232 (VMC 3500 only)
- 1 x RS-232 with either 0, 5 or 12V on pin 9 for external devices
- USB 2.0 host (VMC 3501 only one USB)
- 1 x 10/100/1000Base-T
- 1 x Mic-in, 1 x Line-out
- 1 x 3GPI and 3GPO or CAN Bus with J1939/J1708 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

Communication Module
- 1 x GPS module
- 1 x WLAN and Bluetooth combo 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 S3/S4 suspend mode; wake on RTC/ SMS/ LAN

Operating System
- Windows XP/ WES2009
- WES 7E
- Linux (Kernel 2.6.X)

Environment
- Operating temperatures ambient with air: -30°C to 50°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= 20g
- Crash hazard: MIL-STD-810G, Method 516.6, Procedure V, ground equipment= 75g

Standards/ Certifications
- CE approval
- FCC Class B

Ordering Information

- **VMC 3500 (P/N: 10VC0350000X0)**

  10.4" rugged vehicle mount computer with Intel® Core™ i7, 2GB DDR3, touch screen, Front Panel IP65

- **VMC 3501 (P/N: 10VC0350100X0)**

  10.4" rugged vehicle mount computer with Intel® Core™ i7, 2GB DDR3, touch screen, IP65

- **Bundle Accessories**

  SSD bracket and screws

  GPS antenna (5M)

  Power connector

  Driver CD

- **Optional Accessories**

Part No.	Description
4NCPF00315X00	Power input connector
4NCPF00613X00	Power output and SM bus connector
5060600230X00	RJ45 Waterproof connector
60233US110X00	USB CABLE 100cm
4NBDF00907X00	DB9 connector

Last update: 09/20/2012