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

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

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

LCD Panel

- 10.4-inch TFT LCD panel with LED backlight
- 1024x 768 pixels (XGA)
- Brightness: 400 cd/m² (typical)
- Contrast ratio: 500:1 (typical)

Touch Screen Sensor

- 5-wire resistant touch
- · Anti-glare coating surface
- Transmission rate: 89 ± 3%

CPU & Chipset

- Intel® Core™ i7 2610UE 1.5GHz
- Intel® QM67 chipset

• Support DDR3 1333MHz SODIMM 1GB (up to 8GB)

Storage Interface

- 1 x CFast
- 1 x 2.5" SATA SSD

Expansion

- 1 x Mini-PCle socket (PCle + USB + SATA, for WLAN module)
- 1 x Mini-PCle socket (USB, for 3.5G module)
- 1 x CAN bus module support J1939/J1708

Front Side I/O

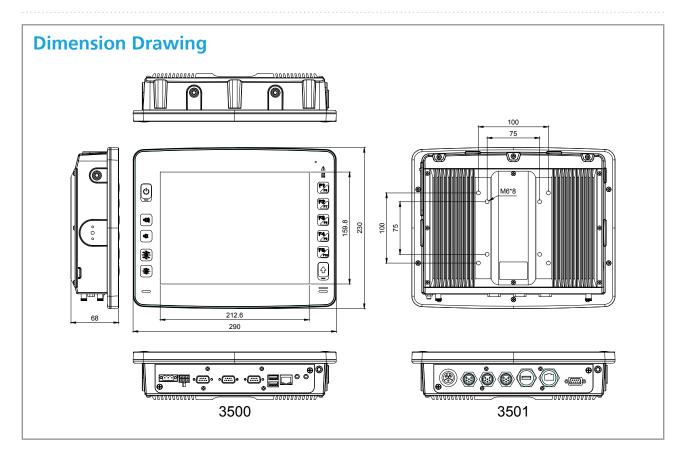
- On screen display buttons x 5
 - Power on/off
 - Volume control (+/-)
 - Brightness control (+/-)
- Light sensor
- LED indicators x 4
- Power on/off
- Storage
- Warning
- Shift
- F1~ F10 functions key
- 2 x Built-in 2W speakers

- Built-in speakers (2W) x 2
- Reserved for 3 optional antenna of Wi-Fi / WWAN, SMA Type

Lateral Side I/O

- 1 x CFast card slot
- Reset button
- 1 x USB2.0/1.1 (host)
- · Reserved for 1 optional antenna of Wi-Fi, SMA Type





Top Side I/O

• Reserved for 2 optional antenna of BT/ Wi-Fi / WWAN, SMA Type

Bottom Side I/O

- M12 connector 3-pin. (power, ignition, ground)
- 1 x RS-232 (VMC3500 only)
- 1 x RS-232 with either 0, 5 or 12V on pin 9 for external devices
- 2 x USB2.0/1.1 (host, VMC3501 only one USB)
- 1 x 10/100/1000Base-T
- 1 x Mic-in, 1 x Line-out
- 1 x CAN Bus with J1939 and 1748 protocol (Option)
- SMBus to support VTK 61B back up smart battery with charger
- GPS antenna connector, SMA Type

Optional Communication Module

- 1 x WLAN and Bluetooth combo module
- 1 x WWAN module

Optional Function

- Sunlight-readable touch screen (high brightness with 1000cd/m²)
- Support VESA 75/100 mount kit

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

• 290mm (W) x 230mm (L) x 60mm (D)

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

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Operating: MIL-STD-810G, 514.6C Procedure 1, Category 4 Storage: MIL-STD-810G, 514.6E 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

Operating System

- Windows XP professional for embedded
- WFS 7P
- Linux (Kernel 2.6.X)

Standards/ Certifications

- CE approval
- FCC Class B
- Meet Energy Star design

Ordering Information

VMC 3500 (P/N: 10VC0350000X0)

10.4" rugged vehicle mount computer with Intel® Core™ i7, touch screen

VMC 3501 (P/N: 10VC0350100X0)

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

Last update: 09/06/2012