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[durabook.nt-rt.ru](http://durabook.nt-rt.ru)

10.4" Rugged Vehicle Mount Computer

**DURABOOK**  
Prepared for the Unexpected

**VA10**

# VA10

**VA10** is one of the most robust Vehicle Computers designed to withstand any kinds of working environment from commercial vehicles, trucks, forklift, to industrial vehicle applications. Its cost effective robust design dramatically reduces the upfront investment for lower total cost of ownership as well as long-term maintenance cost.



## Ignition Controlled Power ON/OFF

VA10 can automatically Power ON when turning the ignition and automatically Power OFF when turning off the ignition. Power OFF delay can be set at 0, 5, 10, or 15 minutes to ensure all data can be saved even after turning off the ignition.



## Power Protection

- Built-in DC to DC Converter provides superior protection, detects and displays on -screen warning for Over Current, Over Voltage, and even Under Voltage for the power source.
- Reverse Polarity Protection
- Power Reset



## Internal UPS Battery

The built-in UPS Battery offers continuous power for up to 15 minutes when the ignition turned off. The UPS Battery provides great benefit of uninterruptible work when the engine is turned off for a short period of time such as door-to-door delivery.



## 6 Programmable Buttons

VA10 is designed with 6 programmable buttons as quick launch to any installed applications. All of the programmable buttons have LED backlight for easy access in low light or dark environment.





## LCD Display

### Resistive Single - Touch Screen

VA10 comes with resistive Single-Touch panel that accommodates gloved-finger, bare finger and stylus input.



### Sunlight Readable Display

With circular polarizer, anti-reflective coating and enhanced 700nits brightness, VA10 provides excellent LCD display under bright sunlight.



### Ambient Light Sensor

Ambient Light Sensor automatically adjusts LCD brightness based on the surrounding light condition to enhance viewing comfort.

## Ruggedness Features

- IP55 for dust/water resistance
- MIL-STD 810G protection against vibration and shock
- Operating temperature: -20°C ~ +50°C
- Storage temperature: -51°C ~ +71°C
- Operating humidity: 5% ~ 95%



## Quick Setting Control (QSC)

DURABOOK Quick Setting Control provides One-Key quick setting to all of your most frequently used functions:

- Program setup
- Indication for BIOS / EC version
- Adjustment on LCD brightness and volume
- One shortcut key for launching On-Screen Keyboard
- Light sensor setup
- On/off for auto power
- Warning information for extreme temperature and power conversion (OVP/OCP/UEP)
- Indication for COM1 & COM2 Voltage

## Premium Connectivity

- Advanced LTE module enhances the WWAN data transmission
- Intel® Centrino® Advanced-N 6235 delivers superior WiFi performance (WLAN 802.11 a/b/g/n)
- Bluetooth 4.0 technology with low-energy and low-latency
- WWAN Gobi 3000
- Global Positional System (GPS)



## Specification

Power Management	<ul style="list-style-type: none"> <li>• Auto Power ON<sup>2</sup> when turning ON ignition</li> <li>• Power ON delay 3 seconds</li> <li>• Auto Power OFF when turning OFF ignition</li> <li>• Auto Power OFF when temperature is below -20°C</li> <li>• Power OFF delay 0, 5, 10 or 15 minutes</li> <li>• Internal battery provides 15 minutes of power</li> </ul>	Communication	<ul style="list-style-type: none"> <li>• 10/100/1000 Mbps Ethernet</li> <li>• Intel® Centrino® Advanced-N 6235 (802.11 a/b/g/n)<sup>1</sup></li> <li>• Bluetooth 4.0<sup>1</sup></li> <li>• Gobi 3000 or LTE WWAN<sup>1</sup></li> <li>• GPS<sup>1</sup></li> </ul>
Power Protection	<ul style="list-style-type: none"> <li>• Over Voltage Protection</li> <li>• Over Current Protection</li> <li>• Under Voltage Protection</li> </ul>	Expansion Slots	<ul style="list-style-type: none"> <li>• One SD Card slot support SDHC</li> </ul>
Rugged Features	<ul style="list-style-type: none"> <li>• IP 55</li> <li>• Shock MIL-STD-810G 516.6, Procedure V, Peak Acceleration of 75g's, Effective Shock Duration of 8-13ms, Cross-Over Frequency of 800 Hz (Non-operating)</li> <li>• Vibration MIL-STD 810G 514.6, Procedure I Table. 514.6 C-VI, Category-4 Composite wheeled vehicle Figure 514.6C-3 (Operating)</li> </ul>	Connectors	<ul style="list-style-type: none"> <li>• Four USB 2.0</li> <li>• Two RS232 Support 0V, 5V(2.5W, 500mA), or 12V(6W, 500mA)</li> <li>• One RJ45</li> <li>• One Mic-in</li> <li>• One Audio-out</li> <li>• Power Connector</li> <li>• Four External antenna connectors (1xGPS, 1xWWAN, 2xWLAN)</li> </ul>
Environment	<ul style="list-style-type: none"> <li>• Temperature Operating: -20°C~ 50°C Storage: -51°C~ 71°C</li> <li>• Humidity Operating 5% ~ 95%</li> </ul>	Buttons	<ul style="list-style-type: none"> <li>• Power on-off / Suspend button</li> <li>• Function button (FN)</li> <li>• Brightness up / down button</li> <li>• Three Programmable buttons (P1~P3) and FN+(P1~P3) to access P4~P6 for total 6 programmable settings</li> <li>• Reset button</li> </ul>
System	<ul style="list-style-type: none"> <li>• CPU Intel® Atom™ Processor N2800 (1.86GHz)</li> <li>• Memory 2GB DDRIII SODIMM (Max. 4GB)</li> <li>• Storage mSATA SSD 32G / 64G</li> <li>• Audio Intel High Definition Audio 1.5 KHz Speaker x 1 / 86 dB</li> <li>• Operating System Genuine Windows 7 Professional 32 bits</li> </ul>	Power	<ul style="list-style-type: none"> <li>• 12 VDC or 24 VDC input voltage</li> <li>• Integrated UPS battery</li> </ul>
Display	<ul style="list-style-type: none"> <li>• 10.4" XGA (1024x768) TFT LCD with LED backlight</li> <li>• Resistive Single -Touch Panel</li> <li>• Ambient Light Sensor</li> <li>• Sunlight Readable 700 nits Display<sup>1</sup></li> </ul>	Dimension	<ul style="list-style-type: none"> <li>• 238 mm (L) x 276 mm (W) x 70 mm (H)</li> </ul>
		Weight	<ul style="list-style-type: none"> <li>• 3.2 Kg (7.05 lbs)</li> </ul>
		Mounting	<ul style="list-style-type: none"> <li>• Support VESA 75, mounting standard</li> </ul>
		Accessory	<ul style="list-style-type: none"> <li>• Power cord connected with cigarette lighter</li> <li>• Power cord connected with car battery</li> <li>• External GPS / WLAN / WWAN Antenna</li> </ul>

1. Optional items

2. When power source is connected to battery

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