

# VBOX-3010

## Intel Atom 1.6GHz In-Vehicle Computer with Isolated 9~36V DC Input



Power Ignition



Isolation



Wide Range



Wireless



Battery Backup

### Features

- Intel® Atom™ N270 1.6GHz processor
- Wireless support 3.5G, WLAN, GPS, GSM/GPRS, Bluetooth
- 9V - 36V DC Power Input with 1500VDC Isolation
- Smarter Vehicle Power Ignition for variety vehicle
- Support 2 x RS-232 with 5V/12V output
- Support 2 x DI / 2 x DO with Relay 12V / 100mA

### System

<b>CPU</b>	Intel Atom™ N270 1.6GHz Processor with 533MHz FSB
<b>Memory</b>	1 x DDRII-533 SO-DIMM Up to 2GB
<b>Chipset</b>	Intel 945GSE + ICH7M
<b>Graphics</b>	Integrated Intel GMA950 GFx Core in 945GSE MCH
<b>ATA</b>	1 x Serial ATA Port with 150MB/s HDD Transfer Rate
<b>LAN Chipset</b>	2 x Intel 82574L Gigabit Ethernet
<b>Watchdog</b>	1 ~ 255 Level Reset

### I/O

<b>Serial Port</b>	Support 2 x RS-232 with 5V/12V Output (COM1 with RS-232/422/485)
<b>USB Port</b>	3 x USB 2.0 Ports
<b>LAN</b>	2 x RJ45 Ports for GbE
<b>Video Port</b>	1 x DVI-I Female Connector for DVI-D and VGA Output
<b>GPIO Port</b>	Support 2 in and 2 out with Relay 12V / 100mA
<b>Audio</b>	Mic-in/Line-out
<b>Expansion Bus</b>	2 x Mini-card Slot
<b>Antenna</b>	4 x SMA-type External Antenna Connectors for WLAN / UMTS / GSM / GPRS / GPS / Bluetooth

### Power Requirement

<b>Power Input</b>	9V - 36V DC Power Input with 1500VDC Isolation
<b>Power Management</b>	Vehicle Power Ignition for Variety Vehicle
<b>Power Off Control</b>	Power off Delay Time Setting by Software, Default is 5 Mins
<b>Backup Battery</b>	Internal Battery Kit for 10 Mins Operating (Optional)

### Qualification

<b>Certifications</b>	CE, FCC Class A, eMark Compliance
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### Storage

<b>Type</b>	1 x 2.5" Drive Bay for SATA Type Hard Disk Drive / SSD 1 x SATA DOM
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### Software

<b>Operating System</b>	Windows XP, Windows 7, WES 7, WES 2009, Linux 2.6.X
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### Environmental

<b>Operating Temp.</b>	-20 ~ 70°C (SSD), ambient w/ air
<b>Storage Temp.</b>	-40 ~ 80°C
<b>Relative Humidity</b>	10 ~ 90% (non-condensing)
<b>Vibration(random)</b>	2.5g@5~500 Hz with SSD
<b>Vibration Operating</b>	MIL-STD-810F, Method 514.5, Category 20, Ground Vehicle-Highway
<b>Truck Storage</b>	MIL-STD-810F, Method 514.5, Category 24, Integrity Test
<b>Shock</b>	Operating: MIL-STD-810F, Method 516.5, Procedure I, Trucks and semi-trailers=40G (11ms) with SSD
<b>Crash Hazard</b>	MIL-STD-810F, Method 516.5, Procedure V, Ground equipment=100g

### Mechanical

<b>Construction</b>	Aluminum alloy
<b>Mounting</b>	Supports both of wall-mount/VESA-mount
<b>Weight</b>	1406 g
<b>Dimensions</b>	182 x 167.6 x 52 mm

### Ordering Information

<b>Part Number</b>	763010011001
<b>Description</b>	Intel Atom 1.6GHz In-Vehicle Computer w/ Isolated 9~36V DC Input / 2 x RS-232 / 2 x GbE / 3 x USB2