

# VBOX-3120

## Intel Haswell Dual Core 2980U 1.6GHz CPU In-Vehicle Computer w/ 9~36V DC Input

In-Vehicle Computing



Power Ignition



Wide Range



Wireless



Battery Backup



### Features

- Intel Gen4 Dual Core 2980U 1.6GHz
- Wireless support LTE, 3.5G, WLAN, GPS, GSM/GPRS, Bluetooth
- 9V - 36V DC Power Input
- Smarter Vehicle Power Ignition for Variety Vehicle
- Support 1 x RS-232 (Option up to 3 x COM Ports)
- Support 2 x DI / 2 x DO (12V / 100mA)

Taiwan Patent No. M447854

### System

<b>CPU</b>	Intel Gen4 Dual Core 2980U 1.6 GHz (optional for Core i3/i5/i7)
<b>Memory</b>	1 x DDR3L-1600 SO-DIMM up to 8GB
<b>Chipset</b>	N/A
<b>Graphics</b>	Intel HD Graphics
<b>ATA</b>	2 x Serial ATA 2.0 Ports with 6Gb/s HDD Transfer Rate
<b>LAN Chipset</b>	2 x Intel i210-AT Gigabit Ethernet
<b>Watchdog</b>	1 ~ 255 Level Reset

### I/O

<b>Serial Port</b>	1 x RS-232 (COM1 w/ RS-232/422/485), Option 3 x COM
<b>USB Port</b>	2 x USB 3.0 and 1 x USB 2.0 Ports
<b>LAN</b>	2 x RJ45 Ports for GbE
<b>Video Port</b>	1 x HDMI and DVI-I
<b>GPIO Port</b>	Support 2 In and 2 Out (12V / 100mA)
<b>Audio</b>	Mic-in/Line-out
<b>Expansion Bus</b>	3 x Mini-card Slots
<b>Antenna</b>	4 x SMA-type External Antenna Connectors for LTE / WLAN / UMTS / GSM / GPRS / GPS / Bluetooth
<b>SIM Card Socket</b>	2 x SIM Card Sockets Supported Onboard with eject

### Power Requirement

<b>Power Input</b>	9V - 36V DC Power Input
<b>Power Management</b>	Vehicle Power Ignition for Variety Vehicle
<b>Power Off Control</b>	Power off Delay Time Setting by BIOS and Software
<b>Battery (UPS)</b>	Internal Battery Kit for 10 Mins Operating (Optional)

Patent No. : M447854 - Build-in Battery

### Qualification

<b>Certifications</b>	CE, FCC Class A, E-13
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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 7, WES 7, Windows 8.1, Linux 3.0.X
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### Environmental

<b>Operating Temp.</b>	-40 ~ 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=15G (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>	Wall-mount, VESA-mount, Din Rail Mounting Kit
<b>Weight</b>	1406 g
<b>Dimensions</b>	182(L) x 167.6(W) x 54(H) mm

### Ordering Information

<b>Part Number</b>	763120010000
<b>Description</b>	Intel Haswell Dual Core 2980U 1.6GHz CPU In-Vehicle Computer w/ 9~36V DC Input