# VBOX-3610-POE

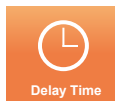## Intel Gen5 Core i7-5650U CPU with 4 x POE Ports On-Board Computer

**Delay Time**

**Power Ignition**

**Wide Range**

**Wireless**

**Battery backup**

## Features

- Intel Core i7-5650U / Core i3-5010U
- Wireless support LTE, 3.5G w/ SIM Card, WLAN GPS Dead Reckoning, GSM/GPRS, BT
- 4 x Power Over Ethernet (POE)
- Smarter Vehicle Power Ignition for Variety Vehicle
- Support Dual Hot Swappable SATA Storage
- Support 1 x CAN Bus 2.0B (Optional)

**Taiwan Patent No. M447854, M448011**

## System

| | |
|---|---|
| CPU | Intel Gen 5 Core i7-5650U 2.2GHz up to 3.1GHz |
| | Intel Gen 5 Core i3-5010U 2.1GHz |
| | Intel Gen 4 Core i7-4650U 1.7GHz up to 3.3GHz |
| | Intel Gen 4 Core i5-4300U 1.9GHz up to 2.9GHz |
| | Intel Gen 4 Core i3-4010U 1.7GHz |
| | Intel Gen 4 Dual Core Celeron 2980U 1.6GHz |
| Memory | 2 x DDR3L 1600 MHz SO-DIMM up to 16GB |
| Chipset | N/A |
| LAN Chipset | Intel I210-AT Gb/s Ethernet Controllers Onboard |
| | Support PXE and WOL |
| Audio | Realtek ALC662 HD Codec Onboard |
| Watchdog | Watchdog Timer Support, Offer 1 – 255 Step |

## I/O

| | |
|---|---|
| Serial Port | 3 x RS-232 (2 with RS-422/485 (Auto Direction Control)) |
| USB Port | 2 x USB 3.0 Ports, 2 x USB 2.0 Ports |
| LAN | 4 x M12 Ports for GbE POE (IEEE802.3AF/AT 15.4W per port) |
| Video Port | 1 x DVI-I*, 1 x DP Port, 1, VGA |
| | (Support Triple Independent Display) |
| DIO Port | 4 In and 4 Out |
| Audio | 1 x Line-out and 1 x Mic-in (Line-in Optional) |
| SIM Card Socket | 1 x SIM Card Socket Supported Onboard with eject |

\* Use only with Single Link DVI Cables.

## Graphics

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|---|---|
| Graphics | Intel® HD Graphics 5000 / 6000 |
| | DirectX Video Acceleration (DXVA) for Accelerating Video |
| | Processing - Full AVC/VC1/MPEG2 HW Decode |
| | Supports DirectX 11/10.1/10/9 and OpenGL 4.0 |
| Resolution | Up to 3200x2000@60Hz (DP) for Gen 4 |
| | Up to 3840x2160@60Hz (DP) for Gen 5 |

## Storage

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|---|---|
| Type | 2 x 2.5" Drive Bay for SATA Type HDD/SSD, Support RAID 0, 1 |
| | 1 x mSATA |

## Power Requirement

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|---|---|
| Power Input | 9V - 36V DC Power Input |
| Power Protection | Automatics Recovery Short Circuit Protection |
| Power Mgmt. | Vehicle Power Ignition for Variety Vehicle |
| Power Off Control | Power off Delay Time Setting by Software and BIOS |
| Battery (UPS) | Internal Battery Kit for 10 Mins Operating (Optional) |
| | **Patent No. : M447854 - Build-in Battery** |

## Environmental

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|---|---|
| Operating Temp. | -40ºC ~ 70ºC (Default CPU 17Watt) |
| | **Patent No. : M448011 - Thermal Cooling** |
| Storage Temp. | -40ºC ~ 80ºC |
| Relative Humidity | 0% RH – 95% RH |
| Vibration(with SSD) | IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis |
| | MIL-STD-810G, Method 514.6, Procedure I, Cat.4, Operating |
| Shock | Operating: MIL-STD-810G, Method 516.5, Procedure I, |
| | Trucks and semi-trailers=15G (11ms) with SSD |
| Crash Hazard | MIL-STD-810G, Method 516.5, Procedure V, |
| | Ground equipment=100g |
| Certifications | CE, FCC Class A, E-13, EN50155, EN50121, EN45545-2 (R25) |

## Mechanical

| | |
|---|---|
| Construction | Aluminum Alloy |
| Mounting | Supports Both of Wall-mount/VESA-mount |
| Weight | 1780 g (Barebone) |
| Dimensions | 250 x 150 x 55 mm |

## Ordering Information

| | |
|---|---|
| Part Number | 763610000100 |
| Description | Intel Gen5 Core i7-5650U CPU with 4x POE Ports |
| | On-Board Computer |
| State of Origin | Made in Taiwan |