

# VBOX-3611-IP65

Taiwan Patent No. M447854, M448011

Intel Gen6 Core i7-6600U CPU with HD 520 GPU IP65 In-Vehicle Computer

## Features

- Intel Core i7-6600U
- Wireless Support LTE, WLAN, GPS, Bluetooth(Optional)
- 9V - 48V DC Power Input
- Smarter Vehicle Power Ignition for Variety Vehicle
- 4 x DI / 4 x DO with Relay 5V / 100mA
- 2 x Analog Input (0-48V)
- IP65 Level for Water and Dust Proof



POE



GPS



Wireless



Wide Range



Delay Time

## Introduction

The VBOX-3611-IP65 is powered by Intel Gen6 Core i7-6600U CPU In-Vehicle Computer. With CE, FCC Class A and E-13 certifications, the VBOX-3611-IP65 is designed and manufactured to withstand dust, moisture, and temperature changes. With Intel Gen6 Core i7-6600U CPU and HD 520 GPU, the waterproof, dustproof, snowproof VBOX-3611-IP65 can effectively support vehicles in bad weather and extreme working conditions, such as snowplow, complex excavator and stacker operations. The strong environmental tolerance continually maintains a wide range of operating temperature (-40 ~ 70 °C). With VBOX-3611-IP65, all related vehicles can be powered and easily connected for remote and real-time management.

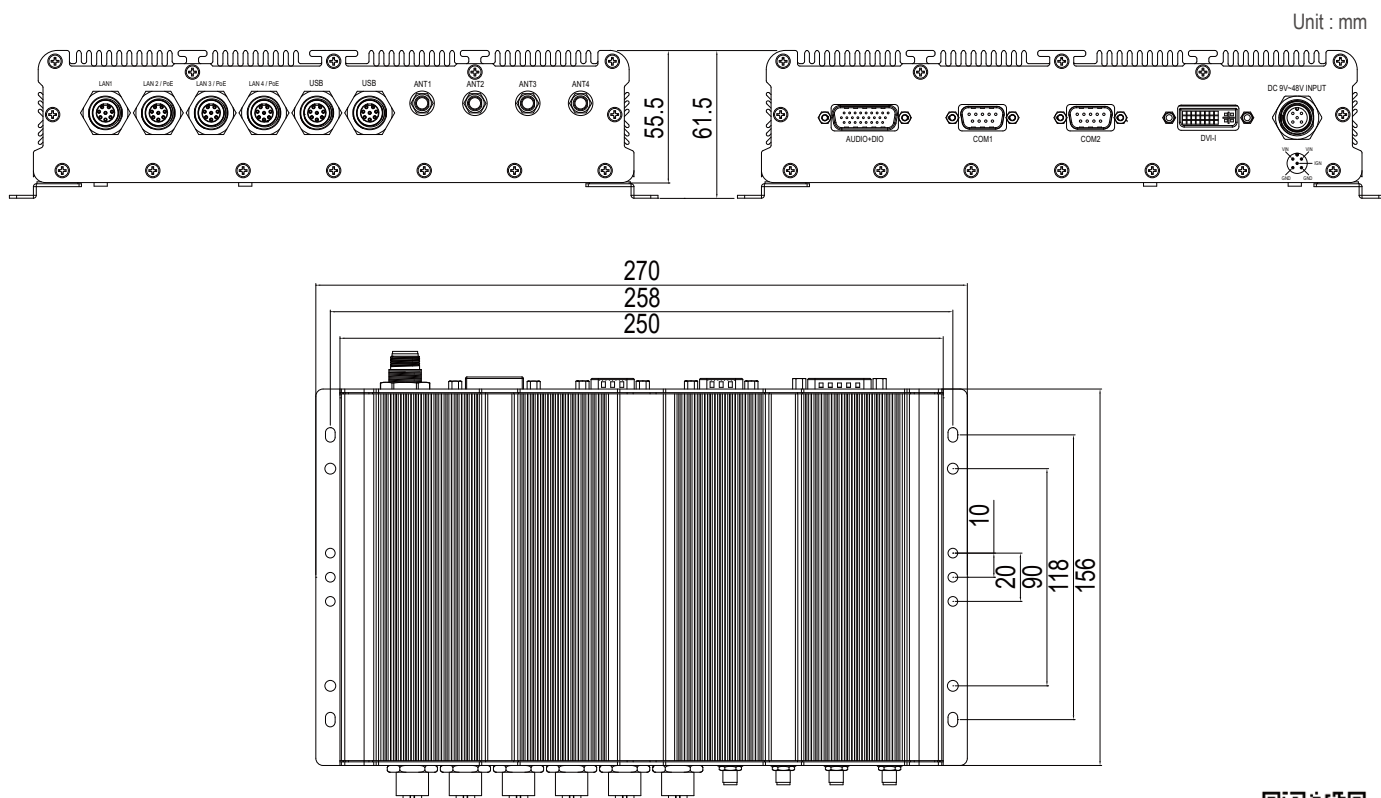
## Specifications

| System          |  |
|-----------------|--|
| CPU             | Intel Gen6 Core i7-6600U 2.6GHz up to 3.4GHz<br>Intel Gen6 Core i5-6300U 2.4GHz up to 3.0GHz<br>Intel Gen6 Core i3-6100U 2.3GHz<br>Intel Gen6 Dual Core 3955U 2.0GHz         |
| Memory          | 2 x DDR4 2133 MHz SO-DIMM up to 32GB   |
| LAN Chipset     | 1 x Intel I219LM (support iAMT for i5, i7 only) Gigabit Ethernet<br>3 x 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   |
| TPM             | 2.0  |
| I/O             |  |
| Serial Port     | 2 x RS-232/422/485 (optional max. 4 x RS-232/422/485)  |
| USB Port        | 4 x USB 2.0 Ports on Front I/O   |
| LAN             | 4 x M12 A-Code for GbE (3 ports with PoE 802.3af)  |
| Video Port      | 1 x DVI-I *  |
| DIO Port        | 4 in and 4 out with Relay 5V / 100mA   |
| AIO Port        | 2 x Analog Input (Voltage range 0~48VDC, accuracy ±500 mV)   |
| Audio           | 1 x Line-out, 1 x Mic-in and 1 x Line-in (optional - 1 x Line-out additional)  |
| SIM Card Socket | 2 x SIM Card Sockets Supported Onboard   |
| Expansion Bus   | 3 x Mini-Card Slots and 1 x M.2 A-E Key 2230 slot<br>* Use only with Single Link DVI Cables.   |
| Graphics        |  |
| Graphics        | Intel® HD Graphics 520<br>DirectX Video Acceleration (DXVA) for Accelerating Video Processing - Full AVC/VC1/MPEG2 HW Decode<br>Supports DirectX 11/10.1/10/9 and OpenGL 4.0 |
| Resolution      | Up to 2560 x 1600 @85Hz  |

| Software             |  |
|----------------------|--|
| Operating System     | Win 10, Ubuntu 16.04 64bit   |
| Environmental        |  |
| Operating Temp.      | -40°C ~ 70°C, ambient w/ 0.6m/s airflow<br><b>Patent No. : M448011 - Thermal Cooling</b>   |
| Storage Temp.        | -40°C ~ 80°C   |
| Relative Humidity    | 10% RH – 90% RH (non-condensing)   |
| IP Rating            | IP65   |
| Vibration (with SSD) | IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis<br>MIL-STD-810G, Method 514.6, Procedure I, Cat.4, Operating   |
| Shock                | Operating: MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD   |
| Certifications       | CE, FCC Class A, E-13, EN50155, EN45545-2 (R25)  |
| Storage              |  |
| Type                 | 1 x 2.5" Drive Bay for SATA Type Hard Disk Drive / SSD<br>1 x M.2 M key 2280 slot supports SATA SSD  |
| Power Requirement    |  |
| Power Input          | 9V - 48V DC Power Input  |
| Power Protection     | Automatics Recovery Short Circuit Protection   |
| Power Mgmt.          | Vehicle Power Ignition for Variety Vehicle   |
| Battery (UPS)        | Internal Battery Kit for 10 Mins Operating (Optional)<br>*UPS backup time varies depending on actual overall system power consumption.<br><b>Patent No. : M447854 - Build-in Battery</b> |
| Mechanical           |  |
| Construction         | Aluminum Alloy   |
| Mounting             | Supports Both of Wall-mount/VESA-mount   |
| Weight               | 1980 g (Barebone)  |
| Dimensions           | 250 x 155 x 55 mm  |

All specifications are subject to change without notice.

## Dimensions



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## Ordering Information

|                 |   |
|-----------------|---|
| Part Number     | VBOX-3611-IP65-i7, option for i5/i3/C1                                |
| Description     | Intel Gen6 Core i7-6600U CPU with HD 520 GPU IP65 In-Vehicle Computer |
| State of Origin | Made in Taiwan  |

## Optional Accessories

|                    |   |
|--------------------|---|
| DRAM               | SO-DIMM max.DDR4-2133,4GB~32GB,0~70°C/-40~85°C          |
| SATA SSD           | 2.5inch MLC/TLC 64GB~1TB 0~70°C/-40~85°C                |
| M.2 SATA SSD       | M.2 M key TLC -40~85°C, 2280 64GB~1TB / 2242 64GB~512GB |
| Wifi               | M.2 A-E key 2230, 802.3a/b/g/n/ac                       |
| Modem              | LTE miniPCle card                                       |
| GPS                | GPS miniPCle card                                       |
| CANBUS             | CANBUS miniPCle card                                    |
| Battery backup kit | BAT-3000-IP65 kit, 1150mAh 3S1P Battery kit (-30~60°C)  |