

# VBOX-3630



Intel® 11th Gen Core™ i7-1185G7E CPU with 4 x LAN On-Board

In-Vehicle Computer

## Features

- Intel® 11th Gen Core™ i7-1185G7E
- 3 x M.2, 2 x mPCIe Slots for Wi-Fi / Dual WWAN / GPS / CAN Expansion
- 1 x 2.5GbE + 3 x GbE LAN Ports (M12 X-coded Connector for Option)
- Supports 4 Independent Display Outputs: 2 x HDMI, 1 x DP, 1 x DVI-D
- Wide Range Input 9V - 60VDC with Ignition Control for EV Installations
- Supports Optional Battery Backup Kit
- E-mark & EN50155 Certified



## Introduction

VBOX-3630 is a fanless in-vehicle computer with 5G connectivity. It utilizes Intel® 11th Gen Core™ i7-1185G7E CPU up to 4.4GHz. VBOX-3630 features an ultra-compact design measuring 250 x 165 x 55mm, which can easily fit into restricted spaces. The system can select 5G, LTE, GPS, and Wi-Fi / Bluetooth as robust connectivity by M.2 modules. It is a building-in four independent display output, audio line-out, and microphone-in. It is the perfect solution for fleet management, in-vehicle digital signage, and mobile DVR. Furthermore, it features Smarter Vehicle Power Ignition and wireless remote control in various vehicles. VBOX-3630 can effectively support cars in extreme weather and operating conditions, such as snowplows, trucks, buses, taxis, and forklifts.

## Specifications

| System           |   |
|------------------|---|
| CPU              | Intel® 11th Gen Core™ i7-1185G7E 1.8GHz up to 4.4 GHz<br>Intel® 11th Gen Core™ i5-1145G7E 1.5GHz up to 4.1 GHz<br>Intel® 11th Gen Core™ i3-1115G4E 2.2GHz up to 3.9 GHz<br>Intel® Celeron® 6305E up to 1.8GHz |
| Memory           | 2 x DDR4-3200 SO-DIMM Up to 64 GB   |
| LAN              | 1 x Intel® 2.5GbE Supports 10/100/1000/2500BASE-T<br>Supports vPro and PXE LAN Boot ROM (i5/i7 SKU)<br>3 x Intel® Gigabit Ethernet  |
| Watchdog         | Watchdog Timer Support, Offer 1 – 255 Step  |
| TPM Version      | 2.0   |
| I/O              |   |
| USB              | 2 x USB 3.2 Gen 2 (10 Gbps)<br>2 x USB 2.0  |
| LAN              | 4 x RJ-45 or 4 x M12 X-coded (1 x 2.5GbE, 3 x GbE)<br>(Optional PoE w/ Max. 60W Power Budget)   |
| DIO              | 6 x DI (5-60V) and 4 x DO (5V/100mA)<br>2 x DC Output (12V/1A)  |
| Audio            | 1 x LINE-Out and 1 x MIC-In (1 x LINE-In for Option)  |
| Video            | 2 x HDMI, 1 x DP, 1 x DVI-D* (Supports 4 Independent Display)<br>*Single-Link cable only  |
| Expansion Bus    | 2 x mPCIe *One is shared with M.2 Key B<br>1 x M.2 2230 Key E, 2 x M.2 3042/52 Key B  |
| Antenna          | 10 x Pre-cut Holes for External SMA Antenna   |
| SIM Card Socket  | 2 x SIM Card Sockets Supported Onboard with Eject   |
| Serial Port      | 4 x RS-232/422/485 (Auto Direction Control) ( 3 Ports for M12 Model)  |
| Storage          |   |
| Type             | 2 x 2.5" Drive Bay for SATA Type HDD/SSD Support RAID 0, 1<br>1 x M.2 2280 Key M for NVMe SSD   |
| Software         |   |
| Operating System | Windows 10 IoT LTSC (64-bit), Windows 11 IoT (64-bit)<br>Linux Ubuntu 20.04.6 LTS (64-bit), 22.04 LTS (64-bit)  |

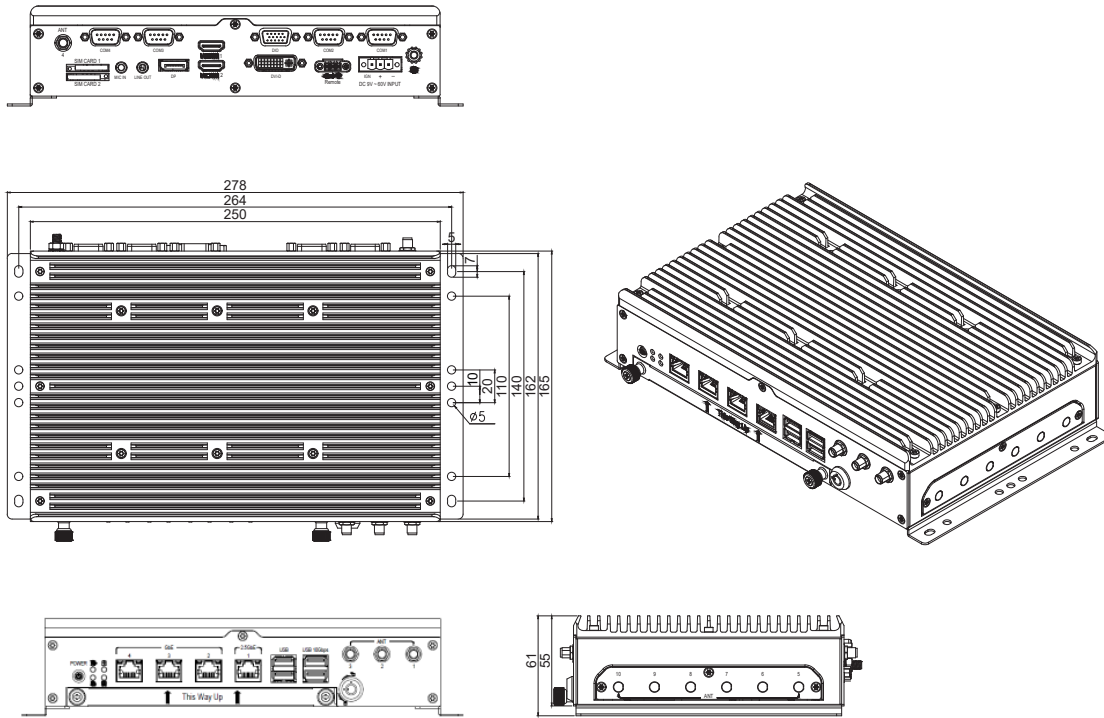
| Graphics             |   |
|----------------------|---|
| Graphics             | Intel® Iris® Xe Graphics / Intel® UHD Graphics  |
| Resolution           | Max Resolution (HDMI2.0b) : 4096 x 2304@60Hz<br>Max Resolution (DP) : 4096 x 2304@60Hz  |
| Environmental        |   |
| Operating Temp.      | -40 ~ 70°C, ambient w/ 0.6m/s airflow Patent No. M448011-Thermal Cooling  |
| Storage Temp.        | -40 ~ 85°C  |
| Relative Humidity    | 10% ~ 90% RH (non-condensing)   |
| 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 514.6, Procedure I, Trucks and semi-trailers 15G (11ms with SSD)  |
| Certifications       | CE, FCC Class A, E-mark, EN50155, EN45545-2 (R25)   |
| Power Requirement    |   |
| Power Input          | 9 ~ 60 VDC Input *24 ~ 60 VDC Input for VBOX-3630P-M12X   |
| Power Protection     | Automatics Recovery Short Circuit Protection  |
| Power Mgmt.          | Power Ignition for Vehicles   |
| Power Off Control    | Power Off Delay Time Setting by Software  |
| UPS                  | Internal Battery Kit for 10 Mins Operating (Optional, Discharge Temp. -20-55°C)<br>*UPS backup time varies depending on actual overall system power consumption.<br>Patent No. : M447854 - Build-in Battery |
| Mechanical           |   |
| Construction         | Aluminum Alloy  |
| Mounting             | Wall-mount  |
| Weight               | 2,500g (Barebone)   |
| Dimensions           | 250(L) x 165(W) x 55(H) mm  |

All specifications are subject to change without notice.

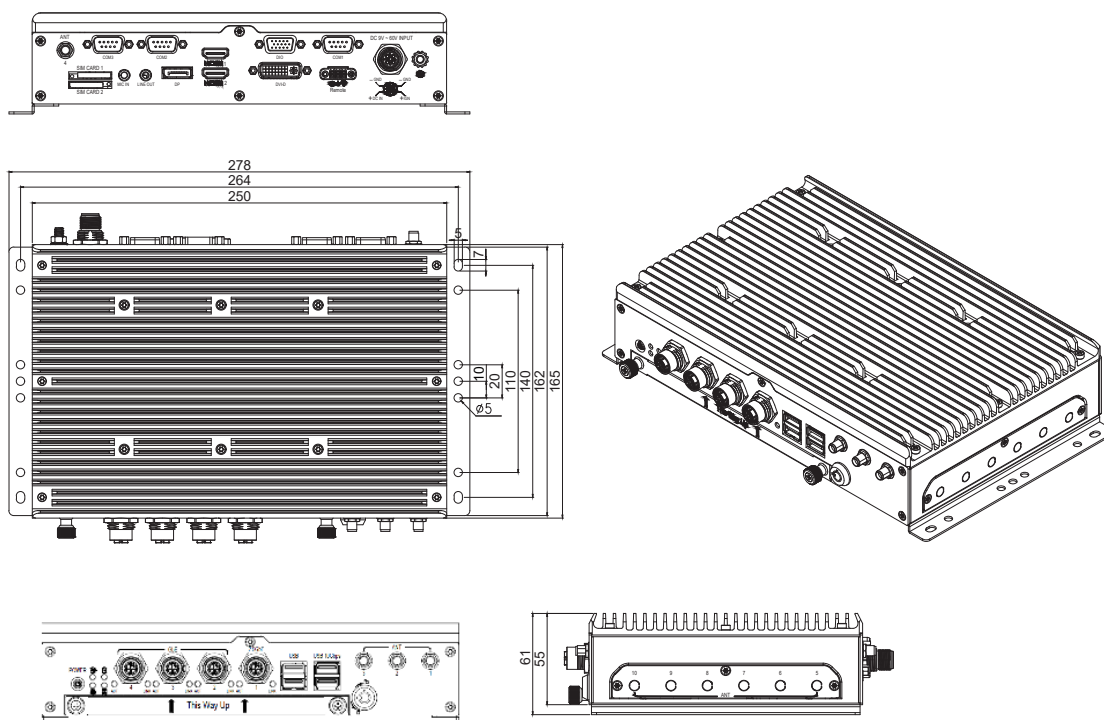
Dimensions

Unit : mm

VBOX-3630



VBOX-3630-M12X



## Ordering Information

|                        |  |
|------------------------|--|
| <b>Part Number</b>     | VBOX-3630x-yyyy-zz (x=P=w/PoE, yyyy= M12X=M12 X-code for LAN ports, zz=i7=i7-1185G7E, zz=i5=i5-1145G7E, zz=i3=i3-1115G4E, zz=C1=6305E) |
| <b>Description</b>     | 11th Gen Intel® Core™ Processor i7-1185G7E CPU with 4 x GbE LAN On-Board Computer  |
| <b>State of Origin</b> | Made in Taiwan   |

## Optional Accessories

|                     |   |
|---------------------|---|
| <b>DRAM</b>         | DDR4 SO-DIMM 3200 8GB~32GB (-40~85°C)   |
| <b>SSD</b>          | 2.5 inch SATA SSD TLC 64GB~1TB (-40~85°C)<br>M.2 2280 NVMe 256GB~1TB TLC (-40~85°C) |
| <b>Wi-Fi Module</b> | M.2 2230 Wi-Fi 6 + Bluetooth 5.2 Module   |
| <b>WWAN Modem</b>   | M.2 3042/52 5G/LTE Modem  |
| <b>GPS</b>          | mPCIe GPS Module  |
|                     | mPCIe CAN Bus Module  |
|                     | BAT-3630 Kit, 2,350mAh 3S1P Battery Kit (-20~55°C for Discharge)                    |

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## Assured Systems

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