M448001

HERMAL COOLING

# **VBOX-36**30

#### Intel® 11th Gen Core™ i7-1185G7E CPU with 4 x LAN On-Board **In-Vehicle Computer**

### **Features**

- Intel<sup>®</sup> 11th Gen Core<sup>™</sup> i7-1185G7E
- Supports Dual 5G / LTE, GPS, Wi-Fi / BT and CAN Bus Modules
- Wide Range Input 9V 60VDC with Ignition Control for EV Installations
- 1 x 2.5GbE + 3 x GbE LAN Port with M12 X-coded Connectors
- Supports 4 Independent Display Outputs: 2 x HDMI, 1 x DP, 1 x DVI-D
- Supports Optional Battery Backup Kit
- E-mark & EN50155 Certified



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## 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**

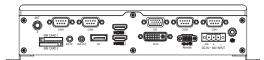
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System	
CPU	Intel® 11th Gen Core ™ i7-1185G7E 1.8GHz up to 4.4GHz Intel® 11th Gen Core ™ i5-1145G7E 1.5GHz up to 4.1GHz Intel® 11th Gen Core ™ i3-1115G4E 2.2GHz up to 3.9GHz Intel® Celeron® 6305E up to 1.8GHz
Memory	2 x DDR4-3200 SO-DIMM Up to 64GB
LAN	1 x Intel® 2.5GbE Supports mGig Supports vPro and PXE LAN Boot ROM (i5/i7 SKU) 3 x Intel® Gigabit Ethernet
Watchdog	Watchdog Timer Support, Offer 1 – 255 Step
TPM	2.0
I/O	
USB	2 x USB 3.2 Gen 2 (10 Gbps) 2 x USB 2.0
LAN	4 x RJ-45 or 4 x M12 X-coded (1 x 2.5GbE, 3 x GbE) (Optional PoE w/ Max. 60W Power Budget)
DIO	6 x DI (5~60V) and 4 x DO (5V/100mA) (Optional: 2x 12V/1A Output)
Audio	1 x Line-out and 1 x Mic-in (option: Line-in)
Video	2 x HDMI, 1 x DP, 1 x DVI-D* (Supports 4 Independent Display) * Use only with Single Link DVI Cables.
Expansion Bus	1 x Combo Port (1x M.2 3042/52 Key B or 1 x mPCle Full Card) 1 x M.2 2230 Key A-E, 1 x mPCle Full Size (USB function only)
Antenna	7 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	
Туре	2 x 2.5" Drive Bay for SATA Type HDD/SSD support RAID 0, 1, 5 1 x M.2 2280 Key M for NVMe SSD
Software	
Operating System	Windows 10 IoT LTSC (64-bit), Windows 11 IoT (64-bit) Linux Ubuntu 20.04 (64-bit), 22.04 (64-bit)

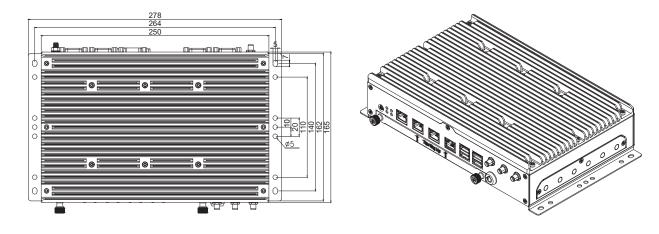
Graphics		
Graphics	Intel® Iris® Xe Graphics / Intel® UHD Graphics	
Resolution	Max Resolution (HDMI2.0b) : 4096 x 2304@60Hz	
	Max Resolution (DP) : 4096 x 2304@60Hz	
Environment	al	
Operating Temp.	-40 ~ 70°C, ambient w/ 0.6m/s airflow Patent No. M448011-Thermal Coolir	
Storage Temp.	-40 ~ 85°C	
<b>Relative Humidity</b>	10% ~ 90% RH (non-condensing)	
Vibration	IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis	
(with SSD)	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 Temp20-60°C) *UPS backup time varies depending on actual overall system power consumption. 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	

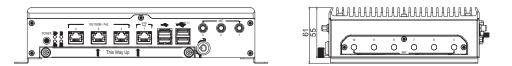
## Dimensions

Unit : mm

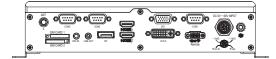
#### **VBOX-3630**

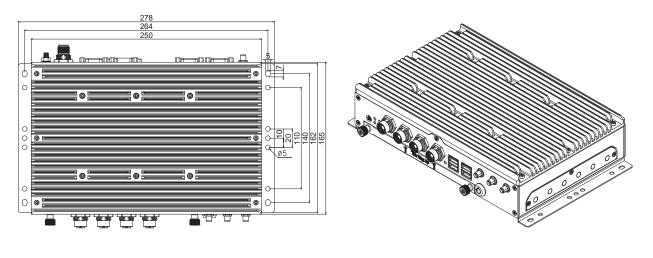


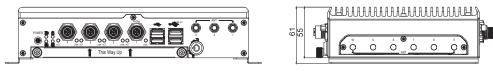




#### VBOX-3630-M12X







# Ordering Information

Part Number	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)	
Description	Intel® 11th Gen Core i7-1185G7E CPU with 4 x GbE LAN On-Board Computer	
State of Origin	Made in Taiwan	

# **Optional Accessories**

DRAM	DDR4 SO-DIMM 3200 8GB~32GB (-40~85°C)
SSD	2.5 inch SATA SSD TLC 64GB~1TB (-40~85°C) M.2 2280 NVMe 256GB~1TB TLC (-40~85°C)
Wi-Fi Module	M.2 2230 Wi-Fi 6 + Bluetooth 5.2 Module
WWAN Modem	M.2 3042/52 5G/LTE Modem
GPS	mPCIe GPS Module
CAN Bus	mPCIe CAN Bus Module
Battery Backup Kit	BAT-3630 Kit, 2,300mAh 3S1P Battery Kit (-20~60°C for Discharge)

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