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 mPCle 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



M447854

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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

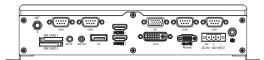
System	
CPU	Intel® 11th Gen Core ™ i7-1185G7E 1.8GHz up to 4.4 GHz Intel® 11th Gen Core ™ i5-1145G7E 1.5GHz up to 4.1 GHz Intel® 11th Gen Core ™ i3-1115G4E 2.2GHz up to 3.9 GHz Intel® Celeron® 6305E up to 1.8GHz
Memory	2 x DDR4-3200 SO-DIMM Up to 64 GB
LAN	1 x Intel® 2.5GbE Supports 10/100/1000/2500BASE-T Supports vPro and PXE LAN Boot ROM (i5/i7 SKU) 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) 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) 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) *Single-Link cable only
Expansion Bus	2 x mPCle *One is shared with M.2 Key B 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	
Туре	2 x 2.5" Drive Bay for SATA Type HDD/SSD Support RAID 0, 1 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 20.04.6 LTS (64-bit), 22.04 LTS (64-bit)

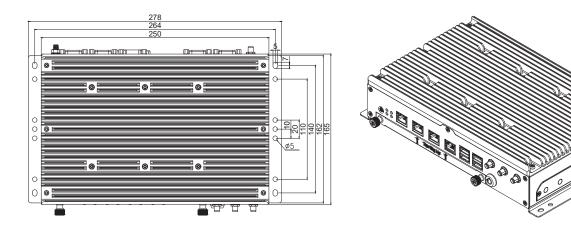
Graphics	Graphics		
Graphics	Intel® Iris® Xe Graphics / Intel® UHD Graphics		
Resolution	Max Resolution (HDMI2.0b) : 4096 x 2304@60Hz		
	Max Resolution (DP) : 4096 x 2304@60Hz		
Environmental			
Operating Temp.	-40 ~ 70°C, ambient w/ 0.6m/s airflow Patent No. M448011-Thermal Cooling		
Storage Temp.	-40 ~ 85°C		
Relative Humidity	10% ~ 90% RH (non-condensing)		
Vibration	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 Mgmt. Power Off Control			
Power Off Control	Power Off Delay Time Setting by Software Optional Battery Kit for 10 Mins Operating (Oparting Temp. 0-60°C) *UPS backup time varies depending on actual overall system power consumption.		
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Power Off Control UPS Mechanical	Power Off Delay Time Setting by Software Optional Battery Kit for 10 Mins Operating (Oparting Temp. 0~60°C) *UPS backup time varies depending on actual overall system power consumption. Patent No. : M447854 - Build-in Battery		
Power Off Control UPS Mechanical Construction	Power Off Delay Time Setting by Software Optional Battery Kit for 10 Mins Operating (Operting Temp. 0-60°C) *UPS backup time varies depending on actual overall system power consumption. Patent No. : M447854 - Build-in Battery Aluminum Alloy		
Power Off Control UPS Mechanical Construction Mounting	Power Off Delay Time Setting by Software Optional Battery Kit for 10 Mins Operating (Operting Temp. 0-60°C) *UPS backup time varies depending on actual overall system power consumption. Patent No. : M447854 - Build-in Battery Aluminum Alloy Wall-mount		

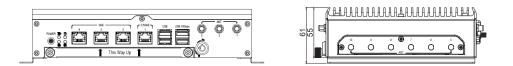
Dimensions

Unit : mm

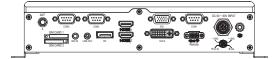
VBOX-3630

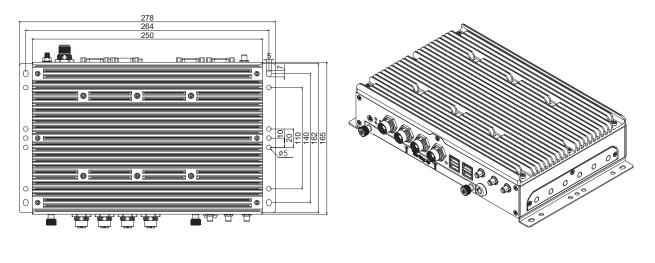


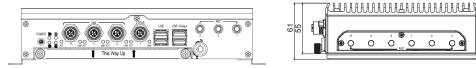




VBOX-3630-M12X







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	11th Gen Intel® Core™ Processor 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, 2,350mAh 3S1P Battery Kit (0~60°C)	

All specifications are subject to change without notice.