VBOX-3121

Taiwan Patent No. M447854

Features

- Intel Gen 6 Core i7-6600U
- Wireless support LTE, WLAN, GPS, GSM/GPRS, Bluetooth(Option)
- 9V - 36V DC Power Input
- Smarter Vehicle Power Ignition for Variety Vehicle
- 4 x RS-232/422/485 (for i7 and i5)
- 2 x DI / 2 x DO (12V / 100mA)

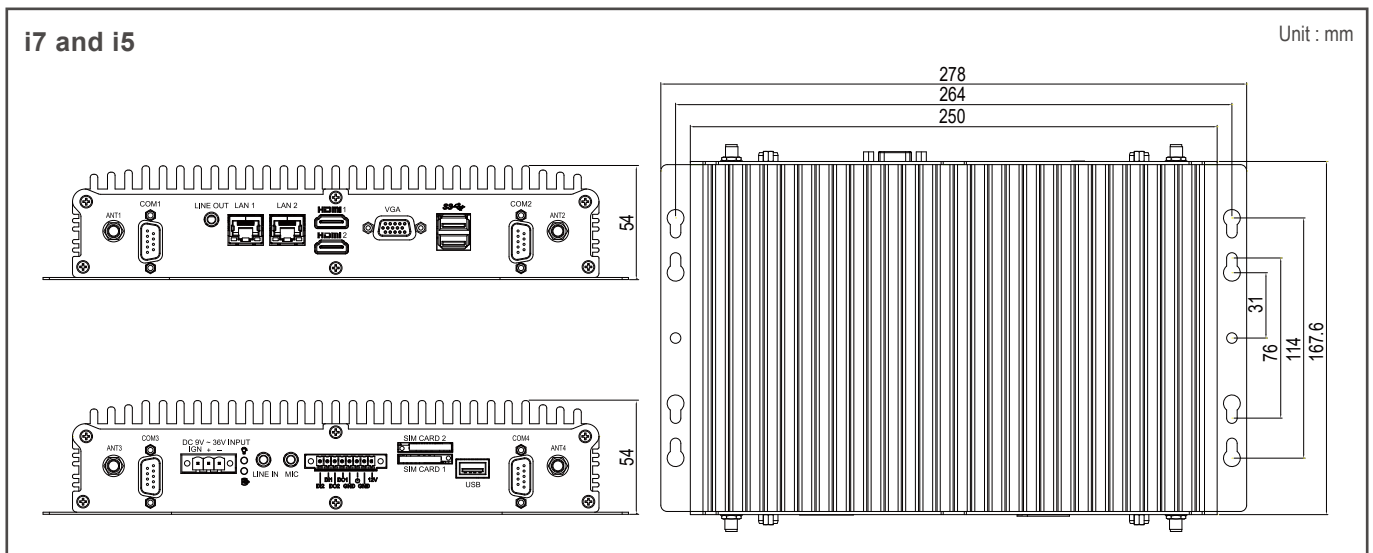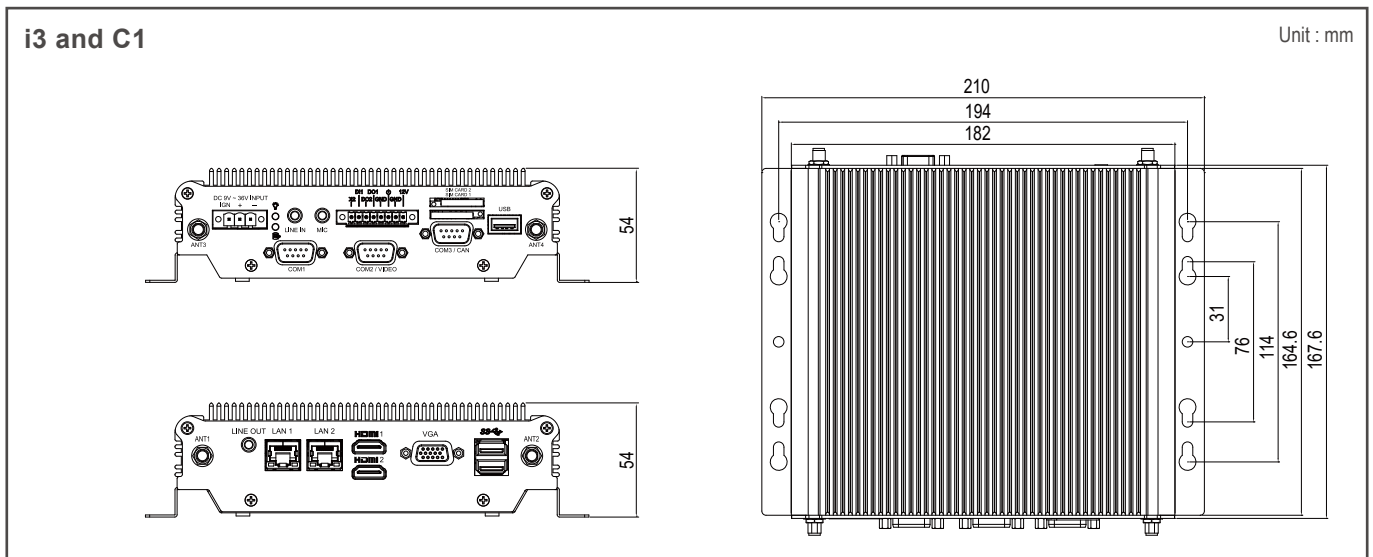POE GPS Wireless Wide Range

Introduction

The VBOX-3121 is powered by Intel Gen 6 i7-6600U with HD Graphic 520/2 x LAN/2 x HDMI/VGA with 3 x RS-232/DC 9-36V Input, and up to 16GB DDR4 SO-DIMM In-Vehicle Computer. It provides high-performing, yet cost-effective, multi-purpose devices for public transportation, police patrol and railway management. Additionally, VBOX-3121 is designed for fleet management, mobile DVR, driver behavior record and in-vehicle digital signage. It can effectively support vehicles in bad weather and extreme working conditions, such as snowplow, train, and stacker operations. Furthermore, there are two options for the case size based on the customers' needs: 250 x 167.6 x 54 mm (for i7 and i5) and 182 x 167.6 x 54mm (for i3 and C1).

Specifications

System	
CPU	Intel Gen 6 Core i7-6600U 2.6GHz up to 3.4GHz
	Intel Gen 6 Core i5-6300U 2.4GHz up to 3.0GHz
	Intel Gen 6 Core i3-6100U 2.3GHz
	Intel Gen 6 Dual Core 3955U 2.0GHz
Memory	1 x DDR4 SO-DIMM up to 16GB
Graphics	Intel HD Graphics
ATA	2 x Serial ATA ports with 6Gb/s HDD Transfer Rate
LAN Chipset	1 x Intel i210-AT Gigabit Ethernet
	1 x Intel i219-LM Gigabit Ethernet (LAN 2), support iAMT for i5 & i7
Watchdog	1 ~ 255 level reset

I/O	
Serial Port	4 x RS-232/422/485 (for i7 and i5)
	3 x RS-232/422/485 (for i3 and C1)
USB Port	2 x USB 3.0 and 1 x USB 2.0 Ports
LAN	2 x RJ45 Ports for GbE
Video Port	2 x HDMI/ 1 x VGA
GPIO Port	2 In and 2 Out (12V / 100mA)
Audio	Mic-in/Line-out
Expansion Bus	2 x Mini-card Slots (1 with SIM for LTE only), 1 x M.2 A-E Key 2230 Slot
Antenna	4 x SMA-type External Antenna Connectors for LTE / WLAN/ UMTS / GSM / GPRS / GPS / Bluetooth
SIM Card Socket	2 x SIM Card Sockets Supported Onboard with eject

Software	
Operating System	Windows 10, Ubuntu 16.04 64bit

Environmental	
Operating Temp.	-40 ~ 70ºC (SSD), ambient w/ 0.6m/s airflow
Storage Temp.	-40 ~ 80ºC
Relative Humidity	10% RH – 90% RH (non-condensing)
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 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD
Certifications	CE, FCC Class A, E-13

Storage	
Type	1 x 2.5" Drive Bay for SATA Type Hard Disk Drive/SSD
	1 x SATA DOM

Power Requirement	
Power Input	9V - 36V DC Power Input
Power Mgmt.	Vehicle Power Ignition for Variety Vehicle
Power Off Control	Power off Delay Time Setting by BIOS and Software
Battery (UPS)	Internal Battery Kit for 10 Mins Operating (Optional) *UPS backup time varies depending on actual overall system power consumption. **Patent No. : M447854 - Build-in Battery**

Mechanical	
Construction	Aluminum Alloy
Mounting	Wall-mount, VESA-mount, Din Rail Mounting Kit
Weight	1400g (for i3 and C1)
	2400g (for i7 and i5)
Dimensions	182 x 167.6 x 54 mm (for i3 and C1)
	250 x 167.6 x 54 mm (for i7 and i5)

Dimensions

i3 and C1

Unit : mm

i7 and i5

Unit : mm

Please Scan The QR Code For More Information

Ordering Information

Part Number	VBOX-3121-i7, VBOX-3121-i5, VBOX-3121-i3, VBOX-3121-C1
Description	Intel Gen6 i7-6600U with HD Graphic 520 / 2 x LAN/ 2 x HDMI/ VGA with 3 x RS-232/ DC 9-36V Input In-Vehicle Computer
State of Origin	Made in Taiwan

Optional Accessories

DRAM	SO-DIMM max.DDR4-2133,4GB~16GB,0~70ºC/-40~85ºC
SATA SSD	2.5inch MLC/TLC 64GB~1TB 0~70ºC/-40~85ºC
SATA DOM	MLC 8GB~128GB, 0~70ºC/-40~85ºC
Wifi	M.2 A-E key 2230, 802.3a/b/g/n/ac
Modem	LTE miniPCIe card
GPS	GPS miniPCIe card
Battery backup kit	BAT-3000 kit, 1150mAH 3S1P Battery kit (-30~60ºC)
Power adapter	Power Adapter 12V/5A 60W Jack

All specifications are subject to change without notice.