

VBC-6060

Fanless In-Vehicle Box PC with 4th/5th Generation Intel® Core™ i7 / i5 / i3 Processor



Features

- In-Vehicle Fanless Box PC, Intel® Core™ i7-4700EQ CPU
- CAN Bus 2.0B, 4 PoE Ports, Isolated Digital I/O
- Dual-Mode GNSS, GPS+BDS Systems
- 9-36 V DC Power Input with Ignition Pin and Swappable Fuse
- -25~70° C Operating Temperature
- 3 Mini PCIe (3G / WLAN / LTE Modules), 2 SIM Ejectors

Applications

- In-vehicle Control Systems
- Remote Video Surveillance
- Multimedia Display and Digital Signage in Vehicles
- Wireless Network Communication

➔ Packing List

Description
1 x VBC-6060
1 x Driver CD(Including Manual)
1 x SATA Cable
1 x SATA Power Cable
2 x 3-pin Power Connector
2 x Wall Mount Bracket

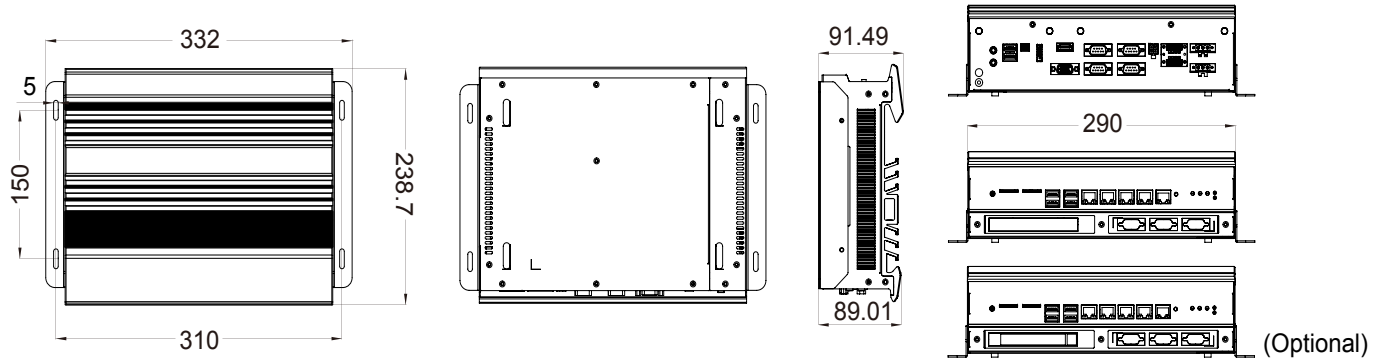
➔ Optional Items

Part No.	Description
ACS-PS-US	Power Cable 3-pin, 180 cm, USA Type
ACS-PS-EU	Power Cable 3-pin, 180 cm, Euro Type
ACS-PS-CN	Power Cable 3-pin, 180 cm, China Type
AWD-3G001-00	3G (HSPA+) Module + 1 Antenna, Full-size
AWD-4G001-00	4G (LTE) Module + 2 Antennas, Full-size
AWD-WF001-00	Wi-Fi 802.11 bgn (1T1R) + 1 Antenna, Half-size
AWD-WF002-00	Wi-Fi 802.11 bgn/BT4.0 (1T1R) Module + 1 Antenna (Dual band), Half-size
AWD-WF003-00	Wi-Fi 802.11 abgn/ac/BT4.0 (2T2R) Module + 2 Antennas (Dual band), Half-size
KIT-GPS-01	GPS Module
KIT-CAN-CN-01	CAN Connector

➔ Ordering Information

Part No.	Description
VBC-6060-1A1	Intel® Core™ i7-4700EQ w/ 6 USB, 4 COM, DIO, CAN Bus, 1 GbE, 4 PoE, Line out, Mic in, 1 VGA, 1 DP, 1 HDMI, 1 GPS/BDS
VBC-6060-2A1	Intel® Core™ i5-4400E w/ 6 USB, 4 COM, DIO, CAN Bus, 1 GbE, 4 PoE, Line out, Mic in, 1 VGA, 1 DP, 1 HDMI, 1 GPS/BDS
VBC-6060-3A1	Intel® Core i3-4100E w/ 6 USB, 4 COM, DIO, CAN Bus, 1 GbE, 4 PoE, Line out, Mic in, 1 VGA, 1 DP, 1 HDMI, 1 GPS/BDS

→ Dimensions



→ Specifications

Model		VBC-6060-1A1	VBC-6060-2A1	VBC-6060-3A1
Processor System	CPU	Intel® Core™ i7-4700EQ	Intel® Core™ i5-4400E	Intel® Core™ i3-4100E
	Frequency	Quad-Core 2.40 GHz	Dual-Core 1.80 GHz	Dual-Core 1.80 GHz
	Cache	Intel® Smart Cache 6 MB	Intel® Smart Cache 3 MB	Intel® Smart Cache 3 MB
	System Chipset	Intel® QM87		
	BIOS	UEFI		
Memory	Technology	DDR3L 1333/1600 MHz SDRAM		
	Max. Capacity	16 GB		
	Socket	2 (204-pin SO-DIMM)		
Display	Graphics Engine	Intel® HD Graphics 4600		
	VGA	Up to 1920 x 1200 at 60 Hz		
	HDMI	1.3a, up to 2560 x 1600 at 60 Hz		
	DP	Up to 3840 x 2160 at 60 Hz		
I/O Interface	Three Display	1 VGA + 1 HDMI + 1 DP (Under Windows OS only)		
	USB	4 USB 3.0, 2 USB 2.0		
	Serial Port	2 RS-232/422/485 (One supports 5/12V, 0.5A), 2 RS-232		
	Digital I/O	8-bit isolated digital I/O (4 input and 4 output, 5 V @ 0.5 A)		
	DC output	12 V DC output (2x2 pin), 1A		
Ethernet	CAN Bus	Built-in CAN bus 2.0B. Optional OBDII function (SAE J1939 / J1708)		
	Controller	1 GbE, 10/100/1000 Mbps (Intel® i217LM); 2 PoE (IEEE802.3at), 10/100/1000 Mbps (Intel® i211)		
GNSS	System	GPS + BDS		
Audio	Chipset	Realtek ALC892 HD Audio		
	Connectors	Line out, Mic in		
Expansion	Mini PCIe	1 Mini PCIe (Full-size), 2 Mini PCIe (Full-size) w/ USB signal only		
	SIM Socket	2		
Storage	SATA	Default: 3 Internal 2.5" HDD/SSD (RAID 0/1/5) Optional: 1 Internal 2.5" HDD/SSD, 1 Swappable 2.5" HDD/SSD Bay		
	mSATA	1		
Power	Power Type	AT / ATX		
	Power Supply Voltage	9-36 V DC input (3-pin Terminal Connector)		
	Power Connector	3-pin Terminal Block (Supports Ignition Pin); 3-pin Remote Power Connector		
	Fuse	30 A, 58 V max.		
	Power Consumption (Typical)	2.26 A @ 12 V (27.1 W) for Core™ i7-4700EQ, not including PoE Device and expansion card		
Others	Power Consumption (Max)	8.33 A @ 12 V (100 W) for Core™ i7-4700EQ, not including PoE Device and expansion card		
	Recovery Button	System Recovery Button		
	Operational	-25~70° C (-13~158° F) w/ Industrial SSD, w/ Air flow (Humidity: 70° C @ 80% RH Non-condensing)		
	Non-Operational	-40~85° C (-40~185° F) (Humidity: 70° C @ 80% RH Non-condensing)		
Environment	Vibration	Operating: MIL-STD-810G, Method 514.6, Category 4, common carrier US highway truck vibration exposure; Storage: MIL-STD-810G, Method 514.6, Category 24, minimum integrity test		
	Shock	Operating: MIL-STD-810G, Method 516.6, Procedure I, functional shock=20g Storage: MIL-STD-810G, Method 516.6, Procedure V, crash hazard shock test=75g		
Certificate	EMC	CE, FCC Class A, eMARK, ISO 7637-2, EN50155		
General	Dimensions (W x H x D)	290 x 91.49 x 238.7 mm (11.42" x 3.60" x 9.40")		
	Weight	4.75 kg (10.45 lb)		
	Operating System	Windows 7/8.1/10, WES7-E/P, WE8S, Ubuntu 14.04		