V6S Series

Fanless Vehicle NVR with 10x PoE Ports

■ Features

- Intel® Core™ i7-7600U Dual Cores Processor
- MIL-STD-810G and E-mark certified
- 10x PoE (5x PoE+), 1x GbE RJ45
- 1 x Full-sized Mini-PCIe for LTE/ WiFi, 1x Removable PGN Caddy (optional)
- 2 x Swappable 2.5" HDD drive bays
- 2x COM, 4x USB, 6x DI/DO, optional CAN Bus, Audio, DVI/VGA

■ Preliminary Specifications

Vehicle Computer

System

CPU	Intel® Core™ i7-7600U
Frequency	Up to 2.8 GHz
Core Number	2
BIOS	AMI SPI Flash BIOS
Chipset	SoC
Processor Graphics	Intel integrated HD Graphics 620

Fanless

	Yes

Memory

Technology	DDR4 2133 MHz
Socket	2x 260-Pin SODIMM
Max. Capacity	32GB (pre-installed 8GB)

Ethernet

Controller	Intel i210IT
Speed	10/100/1000 Mbps
Interface	11x GbE RJ45
PoE	5x IEEE802.3at PoE+ 5x IEEE802.3af PoE

Storage

Type	SATA
Installation	2x Removable 2.5" drive bays (HDD/SSD is not included)
Type	mSATA
Installation	mSATA socket, pre-installed 128GB

I/O

COM	2x RS-232/422/485 with RI/5V
USB	2x USB 3.0 Type A, 2x USB 2.0 Type A
Digital I/O	6x DI 5V or 12V TTL selectable 6x DO 12V TTL, Max. 100mA 2x IGN-DI of ignition control to MCU
Antenna	7x SMA antenna holes (includes GPS)
Audio	1x DB9 for MIC-in and Line-out
Display	DVI-D/VGA

CAN bus

CAN bus	1x 2x5 pin header for output connection to DB-9 male external connector 1x Onboard connector to support optional CAN Module

Expansion

PCIe	1 x Full-sized Mini-PCIe with dual SIM card reader for LTE/ WiFi 1x Removable PGN Caddy with dual SIM card readers (optional)

Cooling

Processor	Passive CPU heatsink
System	Fanless design with corrugated aluminum

Environment

Operating Temperature	-20°C ~ 60°C / -4°F ~ 140°F (without battery backup)
Storage Temperature	-20°C ~ 70°C / -4°F ~ 158°F
Relative Humidity	5%~95% @ 40°C / 104°F (Storage Level)

Miscellaneous

Hardware Monitoring	Fintek F81866AD-I integrated watchdog timer 1~255 level
Internal RTC with Li Battery	Yes

Mechanical

Dimension (W x D x H)	307 x 188 x 105.2 mm (V6S) 223 x 143.8 x 45.7 mm (IV-VPB6SA1A)
Weight	20.8 kg (with power brick)
Mounting	Wall mount kit

Power

Connector	3-pin terminal block (+,-,ignition)
Input	DC 9~36V (+ , - , ignition) supports ATX mode support ignition delay on/ off control

Driver Support

MicrosofWindows	Win10 IoT
Linux	Redhat Enterprise 5, Fedora 14. Linux Kernel 2.6.18 or later

Certification

EMC	CE Class A, FCC Class A, RoHS
Safety	E-13 include ISO-7637-2

Compliance

Vibration	MIL-STD-810G, Method 514.6

Product I/O View
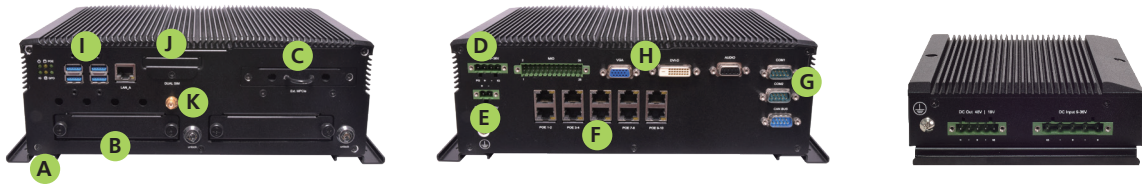
A	Wall mount kit	**D**	DC Input	**G**	COM	**J**	SIM
B	Swappable Drive Bay	**E**	DC Relay & PoE	**H**	VGA & DVI	**K**	Antenna
C	Swappable PGN Caddy	**F**	PoE	**I**	USB		

V6 Series Dimensions 307 x 188 x 105.2 mm
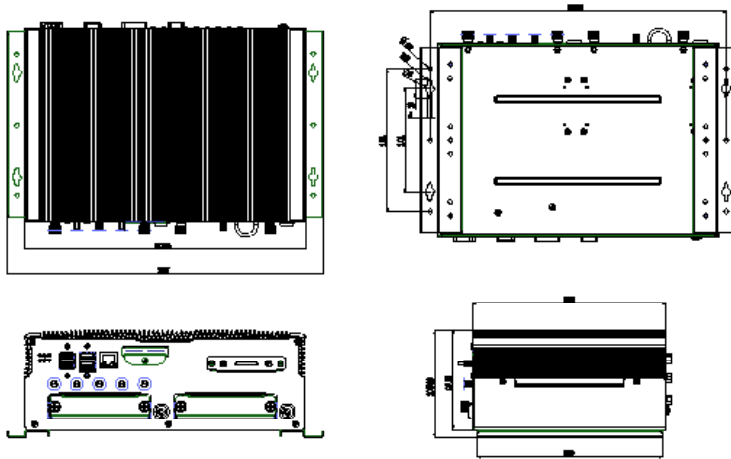
IV-VPB6SA1A Dimensions 223 x 143.8 x 45.7 mm
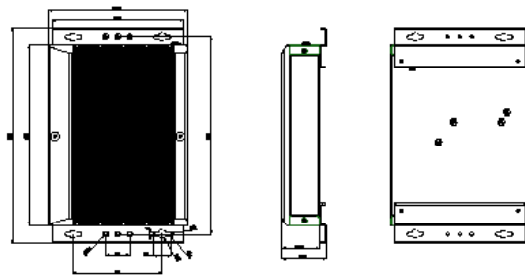
Ordering Information

V6SA	Intel® Core i7-7600U in-vehicle Mobile NVR with 10x Intel GbE PoE and IV-VPB6SA1A, External 200w DC power adapter for+9V~36VDC input with Ignition.
PGN-300	4G LTE Radio Modem with LTE Cat-6 embedded module, certified with PTCRB, AT&T, Verizon.
PGN-600	4G LTE-Advanced Pro Radio Modem with LTE Cat-12 embedded module, certified with PTCRB, AT&T.

V6S Series

Lanner

contact@lannerinc.com | www.lannerinc.com