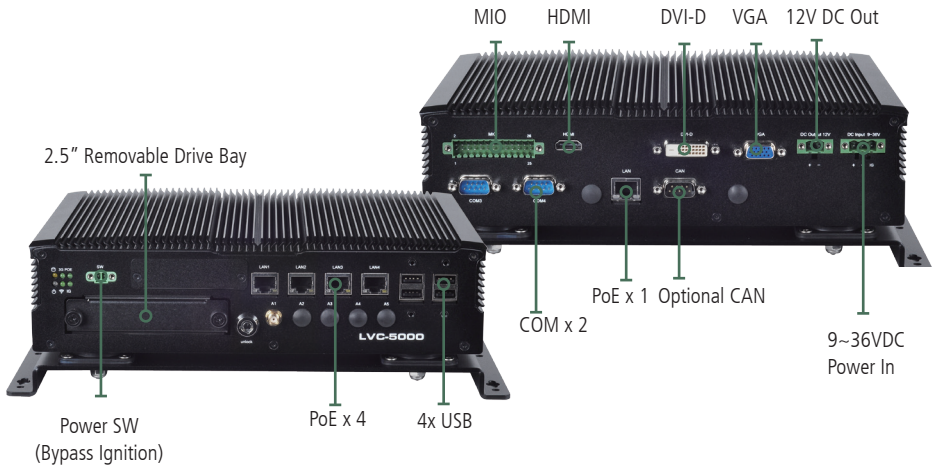# LVC-5000-B3

Fanless In-Vehicle Mobile NVR Computer with Intel i7-3517UE featuring Intel Gbe x5 PoEs for IP cameras with Optional CAN Bus Module support for Transport Surveillance Solution

MIO   HDMI   DVI-D   VGA   12V DC Out

2.5" Removable Drive Bay

PoE x 1   Optional CAN

COM x 2

9~36VDC Power In

Power SW (Bypass Ignition)

PoE x 4   4x USB

Features

Multiple PoE LAN ports to support Transport Surveillance
This mobile NVR with 5 PoE ports (IEEE 802.3af) is suitable for IP Video Surveillance and real-time recording applications.

Designed for MIL-STD-810G with Extreme Vibration Resistance
LVC-5000 series is in compliance with MIL-STD-810G vibration and shock standards and includes SSD storage and a Suspension Kit to further improve robustness.

Fanless Design with Corrugated Aluminum
The corrugated aluminum casing lets heat dissipate through the top of the device, allowing for a fanless design.

Convenient DC output
The LVC-5000 series offers 12VDC output (max 1A) for external devices, operational in concert with the Ignition Power Management feature.

Vehicle Ignition Power Management
Detects vehicle ignition on/off status and allows flexible control of the delay time via software utility.

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Modularized and customizable design

The LVC-5000 series design features the Lanner Proprietary Internal Multi-IO Interface, which carries signals for 2 USB ports, 4 x UART, 4 x Digital I/O, 2 x PCIe, and 1 x SATA 2.0. This allows for customized add-on modules for future features expansion.

Settings and Installation via the front panel

MCU setting and CF card and SIM card installation is easy to access simply by opening the front panel.
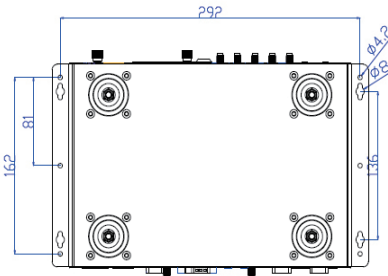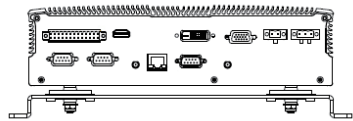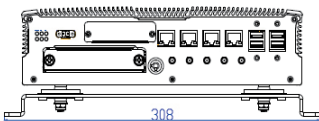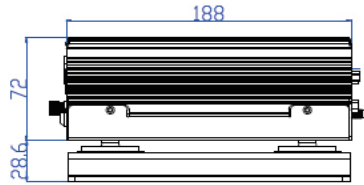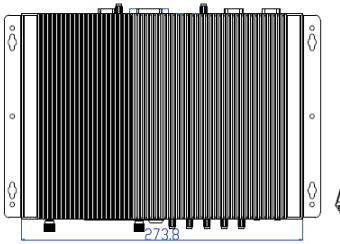
Multi I/O

The MIO design includes 12V Level GPIO, audio, MCU TX/RX and also includes 2x DI (Digital Input from MCU) which can connect sensors to detect the environment. Once defined events occur, the LVC-5000 series can be turned on automatically.

Optional CAN Bus Module

Designed to act as a bridge between Heavy Duty vehicle protocol and UART interface:
- J1939 and J1708 protocols
- Configurable via AT command
- ASCII and HEX CODE Format Output

Dimensions: 273.8 x 72 x 188 mm (10.78″ x 2.84″ x 7.4″)

Preliminary Specifications

Dimensions (WxHxD)		273.8 x 72 x 188 mm (10.78″ x 2.84″ x 7.4″)
Processor		Intel® Core™ i7-3517UE Processors
Chipset		Intel HM65
System Memory	Technology	DDR3 SO-DIMM x1 (Factory default: 4GB module pre-installed)
	Max. Capacity	Up to 8GB
Storage	SATA/CF	Removable 2.5″ SSD/HDD drive bay x1, CF socket x1
Ethernet Controller		Intel 82583V x5
Graphic Controller		Intel integrated HD graphic engine
Audio Controller		Realtek ALC886 HD codec
IO	LAN	GbE RJ45 x 5
	Display	DVI-D, maximum resolution up to 1920x1200@75Hz VGA, maximum resolution up to 2048x1536@60Hz HDMI, maximum resolution up to 1920x1200@75Hz Dual display supports Independent, clone and extended mode.
	Audio	Mic-in and Line-out with 2 watt by terminal block MIO connector
	Serial I/O	1x RS-232/422/485 both with RI/5V/12V
	GPS	Ublox NEO-7N GPS receiver module
	G-sensor	ADXL 345
	GPIO	4x DI and 4x DO with 5V/12V Level by jumper setting 2x DI (from MCU) 3.3V Level 2x DO control relay with contact current @ 2A
	USB 2.0	Type A x4
	Power Input	3-pin terminal block (+, -, ignition)
	Power Output	12 VDC/1A
	Expansion	Mini-PCIe x3 (Two with SIM card slot)
	CAN Bus	Support Optional J1939 and J1708 protocols Baud Rate: 9600, 19200, 38400, 57600, 115200
	PoE	PoE x 5, IEEE 802.3af, Standard PoE
	Others	External: 5x SMA antenna hole, Remote Power switch Internal: Lanner Proprietary MIO
Power Input		+9~36VDC input range, with ignition delay on/off control
PoE Power Module		Internal integrated
OS Support		Linux: Redhat Enterprise 5/ Fedora 14. Linux Kernel 2.6.18 or later Windows: XP embedded ; Win7 Pro FES/Embedded; Win8
Certifications		CE, FCC Class A, E13, RoHS
Compliance		Vibration: MIL-STD-810G, Method 514.6 Shock:MIL-STD-810G, Method 516.6
Operating Temperature Range	Extended	With Selected Industrial Components: -20~60°C/-4~140°F
	Standard	With Commercial Components: -5~45°C / 23~113°F

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Ordering Information

LVC-5000-B3	Intel® i7-3517UE In-Vehicle NVR Computer, with Intel GbE x 5 Ports PoE for IP cameras. 4GB DDR3 Memory included, 2.5″ Removable Drive Bay, Mini-PCIe x2 with two SIM card reader, USB x 4, COM x 2, MIO, Optional CAN, Audio, HDMI, DC Power input +9~36Vdc with Ignition, Suspension Kit included.