Embedded PC

Intel® i7-3517UE In-Vehicle NVR Computer, with 4x PoE ports 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

Model: LPC-V5X-A4

Features

Multiple PoE LAN ports to support Transport Surveillance
This mobile NVR with 8 PoE ports (IEEE 802.3af) is suitable for IP Video Surveillance and real time recording applications.

Fanless Design with Corrugated Aluminum
The corrugated aluminum casing allow heat to dissipate off the top of the platform allowing for a fanless design.

Vehicle Ignition Power Management
Detect the ignition on/off status and allow controlling delay time by flexible setting via software utility.

Convenient DC output
LPC-V5X-A4 offers 12VDC regulated output (max 1A) for external devices, operational in concert with the Ignition Power Management feature.

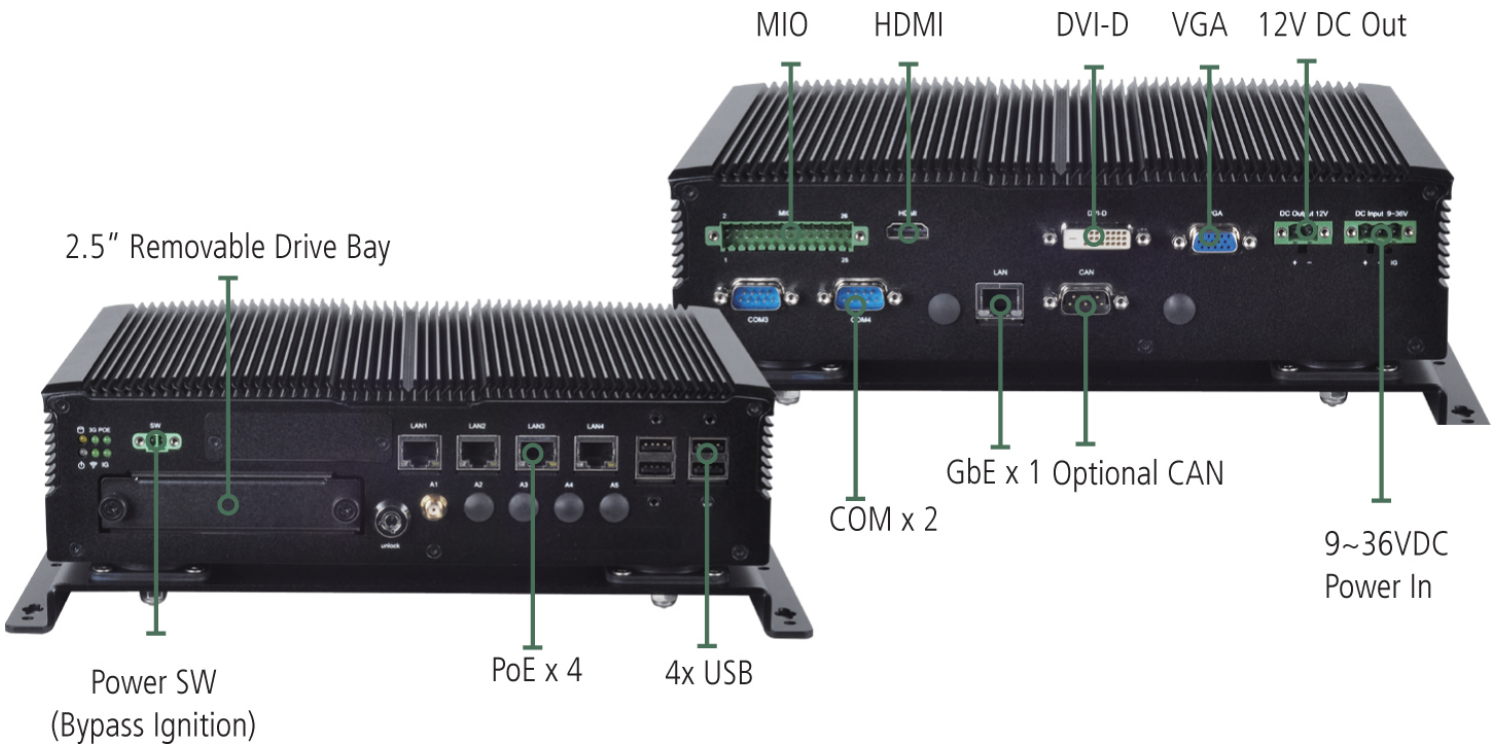
Multi I/O
The MIO design includes 12V Level GPIO, audio, MCU TX/RX and also includes 2x DI (Digital Input from MCU) which can connect sensors to detect the environment. Once defined events occur, the LPC-V5X-A4 series can be turned on automatically.

Design for MIL-STD-810G with Extreme Vibration Resistance
LPC-V5X-A4 is in compliance with MIL-STD-810G vibration and shock standards and includes SSD storage and a Suspension Kit to further improve robustness.

Modularized and customizable design
The LPC-V5X-A4 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 xPCIe, 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.

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



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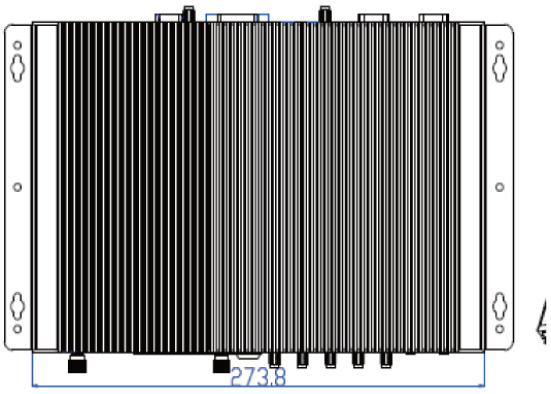
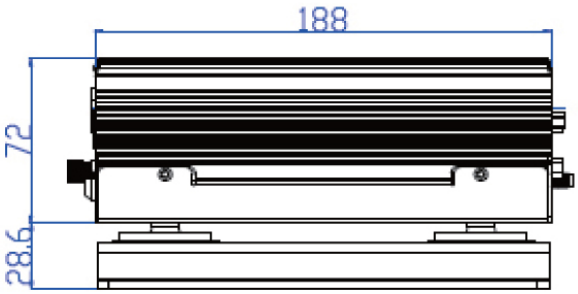
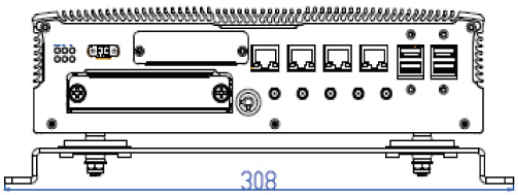
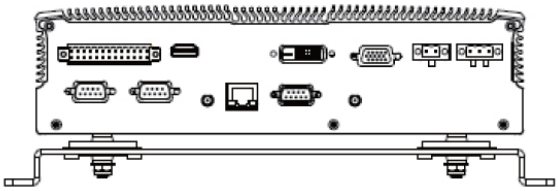
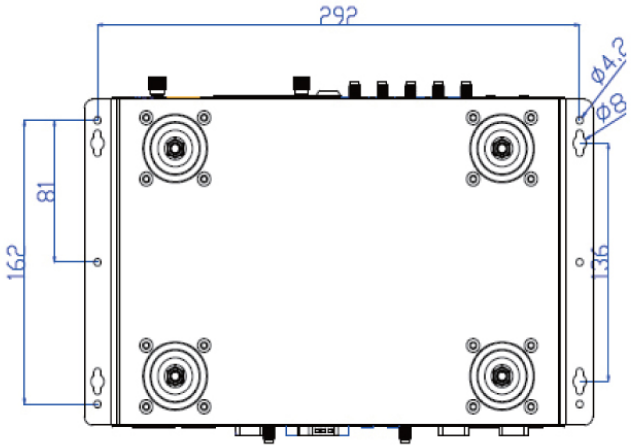
Dimensions: 273.8 x 72 x 188 mm (10.78” x 2.84” x 7.4”)











Specifications

Dimensions (WxHxD)		273.8 x 72 x 188 mm (10.78” x 2.84” x 7.4”)
Processor		Intel® CoreTM i7-3517UE Processors
Chipset		Intel HM65
System Memory	Technology	DDR3 SO-DIMM x1 (Factory default: 4GB module pre-installed)
	Max. Capacity	Up to 8GB (user option)
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
	Digital I/O	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 4, 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 Adapter		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