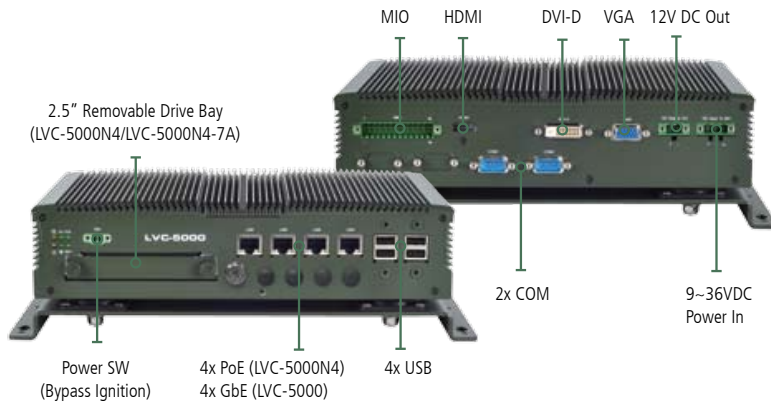


# LVC-5000

**Fanless Mobile NVR with Intel 847E / i7-2655LE series featuring 4 PoE Ports for Transport Surveillance**



## Features

### Multiple PoE LAN ports to support Transport Surveillance

This mobile NVR with 4 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-5000N4 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.

## 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 other features.

## Key lock for Drive Bay

The system is with key lock for removable drive bay.

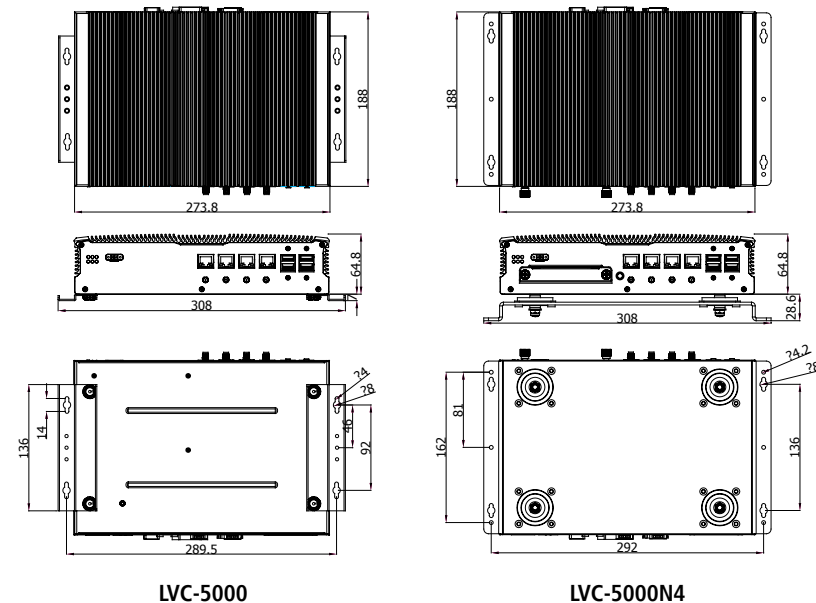
## Settings and Installation via the front panel

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 can be turned on automatically.

## Dimensions: 273.8 x 64.8 x 188 mm (10.78" x 2.55" x 7.4" )



### Preliminary Specifications

|                                    |                         |  |   |
|------------------------------------|-------------------------|--|---|
| <b>Dimensions (WxHxD)</b>          |                         | 273.8 x 64.8 x 188 mm (10.78" x 2.55" x 7.4" )   |   |
| <b>Processor</b>                   |                         | Intel 847E/i7-2655LE Processors  |   |
| <b>Chipset</b>                     |                         | Intel HM65   |   |
| <b>System Memory</b>               | Technology              | DDR3 SO-DIMM x1 ( Factory default: 4GB module pre-installed )  |   |
|                                    | Max. Capacity           | Up to 8GB (user option)  |   |
| <b>Storage</b>                     | SATA/CF                 | Removable 2.5" SSD/HDD drive bay x1 for LVC-5000N4, Internal 2.5" SSD/HDD drive bay x1 for LVC-5000; CF socket x1                  |   |
|                                    |                         |  |   |
| <b>Ethernet Controller</b>         |                         | Intel 82583V x4  |   |
| <b>Graphic Controller</b>          |                         | Intel integrated HD graphic engine   |   |
| <b>Audio Controller</b>            |                         | Realtek ALC886 HD codec  |   |
| <b>IO</b>                          | LAN                     | GbE RJ45 x4  |   |
|                                    | Display                 |  | DVI-D, maximum resolution up to 1920x1200@75Hz<br>VGA, maximum resolution up to 2048x1536@60Hz<br>HDMI, maximum resolution up to 1920x1200@75Hz |
|                                    |                         |  | Dual display function supports Independent, clone and extended mode.(VGA+DVI or VGA+HDMI)   |
|                                    | Audio                   | Mic-in and Line-out with 2 watt by terminal block MIO connector  |   |
|                                    | Serial I/O              | 1x RS-232 and 1x RS-232/422/485 both with RI/5V/12V  |   |
|                                    | GPS                     | Ublox NEO-6Q GPS receiver module   |   |
|                                    | G-sensor                | ADXL 345   |   |
|                                    | GPIO                    | 4x DI and 4xDO with 5V/12V Level by jumper setting<br>2x DI (from MCU) 3.3V Level<br>2x DO control relay with contact current @ 2A |   |
|                                    | USB 2.0                 | Type A x4  |   |
|                                    | Power Input             | 3-pin terminal block (+, -, ignition)  |   |
|                                    | Expansion               | Mini-PCIe x2 (Both with SIM card reader)   |   |
|                                    | PoE                     | PoE x4, IEEE 802.3af, Standard PoE (LVC-5000N4)  |   |
|                                    | Others                  | External: 4x SMA antenna hole, Remote Power switch<br>Internal: Lanner Proprietary MIO   |   |
|                                    | <b>Power Input</b>      |  | +9~36VDC input range, with ignition delay on/off control  |
|                                    | <b>PoE Power Module</b> |  | LVC-5000N4 internal integrated  |
| <b>OS Support</b>                  |                         | Linux: Redhat Enterprise 5/ Fedora 14. Linux Kernel 2.6.18 or later<br>Windows: XP embedded ; Win7 Pro FES/Embedded; Win8          |   |
| <b>Certifications</b>              |                         | CE, FCC Class A, E13, RoHS   |   |
| <b>Compliance</b>                  |                         | Vibration: MIL-STD-810G, Method 514.6<br>Shock:MIL-STD-810G, Method 516.6  |   |
| <b>Operating Temperature Range</b> | Extended                | With Selected Industrial Components<br>-20~-55°C / -4~-131°F   |   |
|                                    | Standard                | With Commercial Components<br>-5~-45°C / 23~-113°F   |   |



### Ordering Information

|                      |  |
|----------------------|--|
| <b>LVC-5000N4-7A</b> | Intel® i7-2655LE In-Vehicle Mobile NVR Computer, 4GB DDR3 Memory included, 2.5" Removable Drive Bay, Mini-PCIe x2 with two SIM card reader, Intel GbE x4 with PoE support, USB x4, COM x2, MIO, Audio, HDMI, DC Power input +9~36Vdc with Ignition, Suspension Kit included. |
| <b>LVC-5000N4</b>    | Intel® 847E In-Vehicle Mobile NVR Computer, 4GB DDR3 Memory included, 2.5" Removable Drive Bay, Mini-PCIe x2 with two SIM card reader, Intel GbE x4 with PoE support, USB x4, COM x2, MIO, Audio, HDMI, DC Power input +9~36Vdc with Ignition, Suspension Kit included.      |
| <b>LVC-5000</b>      | Intel® 847E In-Vehicle Computer, 4GB DDR3 Memory included, Internal 2.5" Drive Bay, Mini-PCIe x2 with two SIM card reader, Intel GbE x4, USB x4, COM x2, MIO, Audio, HDMI, DC Power input +9~36Vdc with Ignition, wall mount kit included.                                   |

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660