NEOUSYS TECHNOLOGY

Nuvo-3005LP

Intel® 3rd-Gen Core™ i7/ i5 Low Profile Fanless Embedded System with Swappable HDD Tray

Key Features

· **Intel® 3rd-Gen Core™ i7 quad-core processor**
· **240mm x 225mm x 69mm low-profile chassis**
· **One easy-swap 2.5" HDD and one fixed 2.5" HDD**
· **Up to 5x GigE ports, supporting 9.5 KB jumbo frame**
· **Rugged, -25°C to 70°C fanless operation**
· **Optional PoE port functionality**
· **Optional isolated DIO with COS interrupt support**

CE FC

Introduction

The low profile chassis of Nuvo-3005LP is ideal for deployment in confined spaces. The low profile chassis is only 69mm in height and yet remains extremely thermal efficient with extraordinary reliability in a -25°C to 70°C operating temperature range.

Nuvo-3005LP incorporates Intel® 3rd-Gen Core™ i7 quad-core processor with versatile I/O functions such as Gigabit Ethernet ports, USB3.0 ports and dual independent display outputs. As options, it offers Power over Ethernet (PoE), isolated DIO and ignition power control for a wider range of applications.

Its newly-designed chassis offers one fixed 2.5" HDD accommodation and one easy-swap 2.5" HDD tray. Users can take advantage of its storage design for applications that requires frequent HDD replacement. Combing its low-profile chassis and PoE option, Nuvo-3005LP is a suitable platform for advanced surveillance/ security systems.
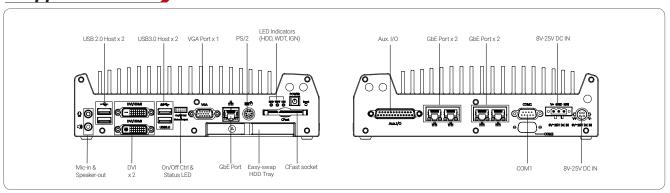
Specifications

System Core

Processor	Intel® Core™ i7-3610QE (2.3/ 3.3 GHz, 6 MB cache) Intel® Core™ i5-3610ME (2.7/ 3.3 GHz, 3 MB cache) Intel® Celeron® 1020E (2.2 GHz, 2 MB cache)
Chipset	Intel® HM76 Platform Controller Hub
Graphics	Integrated Intel® HD Graphics 4000 Controller (i7/ i5) Integrated Intel® HD Graphics Controller (Celeron®)
Memory	Up to 16GB DDR3 1333/ 1600 MHz SDRAM (two SO-DIMM slots)

I/O Interface

Ethernet	5x Gigabit Ethernet ports by Intel® I210
PoE	Option of PoE capability for 4x GbE

Video Port	1x DB-15 connector for analog RGB,
	    supporting 2048x1536 resolution
	2x DVI-D connectors for DVI outputs,
	    supporting 1920x1080 resolution
	    (dual-independent display support)

USB	2x USB3.0 ports and 2x USB2.0 ports
Serial Port	1x software-programmable RS-232/ 422/ 485 (COM1)
Isolated DIO (Optional)	8x isolated DI with COS interrupt and 8x isolated DO
KB/MS	1x 6-pin mini-DIN connector for PS/2 keyboard/ mouse
Audio	1x Mic-in and 1x speaker-out

Storage Interface

SATA HDD	1x Internal SATA port for 2.5" HDD/ SSD installation 1x easy-swap HDD tray for 2.5" HDD/ SSD installation
CFast	1x CFast socket

Expansion Bus

Mini PCI-E	1x internal mini PCI Express socket with USIM socket 1x internal mini PCI Express socket

Power Supply & Ignition Control

DC Input	1x 4-pin power connector for 8~25V DC input (for AC adapter) 1x 3-pin pluggable terminal block for 8~25V DC input (for direct DC wiring)
Ignition Control	1x 3-pin pluggable terminal block for ignition signal input (IGN/ GND/ V+) (Optional)
Remote Ctrl. & Status Output	1x 10-pin (2x5) wafer connector for remote on/off control and status LED output
Power Consumption	With i7-3610QE : 72.96W (3.84A@19V) With i5-3610ME : 48.83W (2.57A@19V)

Mechanical

Dimension	240mm (W) x 225mm (D) x 69mm (H)
Weight	3.4 kg (incl. CPU, memory and HDD)
Mounting	Wall-mounting (standard) or DIN-rail mounting (optional)

Environmental

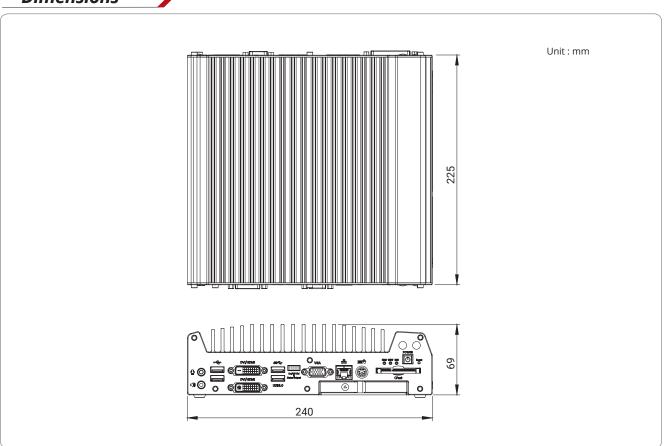|	
Operating Temperature	-25°C ~ 70°C */** (with i5-3610ME & Celeron 1020E) -25°C ~ 60°C */** (with i7-3610QE)
Storage Temperature	-40°C ~ 85°C
Humidity	10%~90% , non-condensing
Vibration	Operating, 5Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
Shock	Operating, 50Grms, Half-sine 11ms Duration (w/ SSD, according to IEC60068-2-27)
EMC	CE/FCC Class A, according to EN 55022 & EN 55024

*100% CPU loading is applied using Intel® Thermal Analysis Tool. For detail testing criteria, please contact Neousys Technology.
**For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.

Appearance

USB 2.0 Host x 2 | USB3.0 Host x 2 | VGA Port x 1 | PS/2 | LED Indicators (HDD, WDT, IGN)

Mic-in & Speaker-out | DVI x 2 | On/Off Ctrl & Status LED | GbE Port | Easy-swap HDD Tray | CFast socket

Aux. I/O | GbE Port x 2 | GbE Port x 2 | 8V-25V DC IN

COM1 | 8V-25V DC IN

Dimensions

Unit : mm

225

69

240

Ordering Information

Model No.	Product Description
Nuvo-3005LP	Intel® 3rd-Gen Core™ i fanless embedded controller with 5x GbE, 4x USB3.0, dual SATA ports and low-profile chassis
Option of ignition power control	
Option of isolated DIO(8DI + 8DO)	
Option of PoE capability for 4x GbE	

Optional Accessories

DINRAIL-O	DIN-rail mounting assembly for Nuvo-3000 series
PA-120W-OW	120W AC/DC power adapter 20V/6A; 18AWG/120cm; cord end terminals for terminal block, operating temperature : -30 to 70 °C.