Nuvo-3005LP Series

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

Features

· Intel® 3rd-Gen i7 quad-core superb performance
· 240 mm x 225 mm x 69 mm 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
· Option of PoE capability
· Option of isolated DIO with COS interrupt support

Introduction

Nuvo-3005LP is the low-profile version for restricted space. It features a new chassis which reduces the height from 88 mm to 69 mm, and remains extraordinary reliability in a -25°C to 70°C operating temperature range.

Nuvo-3005LP incorporates the cutting-edge 3rd-Gen i7 quad-core processor and versatile I/O functions such as Gigabit Ethernet ports, USB 3.0 ports and dual independent display outputs. It also offers the options of PoE (Power over Ethernet), 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	2x 204-pin SO-DIMM sockets, up to 16 GB DDR3 1333/1600 MHz SDRAM

I/O Interface

Ethernet	5x Gigabit Ethernet ports by Intel® i210

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

USB	2x USB 3.0 ports and 2x USB 2.0 ports
Serial Port	1x software-programmable RS-232/422/485 (COM1)
Isolated DIO	8x isolated DI with COS interrupt and 8x isolated DO(Optional)
KB/MS	1x 6-pin mini-DIN connector for PS/2 keyboard/mouse
Audio	1x Mic-in and 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
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	240 mm (W) x 225 mm (D) x 69 mm (H)
Weight	3.4 Kg (including 2.5" HDD and DDR3 SO-DIMM)
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	-40°C ~ 85°C
Humidity	10%~90% , non-condensing
Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
Shock	Operating, 50 Grms, Half-sine 11 ms 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.

Order Information

Nuvo-3005LP-I7QC
Intel® Core™i7-3610QE fanless embedded controller with 5x GbE, dual SATA ports and low-profile chassis

Nuvo-3005LP-I5DC
Intel® Core™i5-3610ME fanless embedded controller with 5x GbE, dual SATA ports and low-profile chassis

Option of Ignition Power Control

Option of isolated DIO(8DI + 8DO) (Nuvo-3005LP only)

Option of PoE capability for 4x GbE(Nuvo-3005LP only)

Option of DIN-Rail mounting kit

120W AC/DC power adapter