

Nuvo-3005E-PoE Series

Video Analytics Surveillance PoE Computer

Intel® 3rd-Gen Core™ i7/i5/i3 Fanless Embedded Controller with 4 / 8 GigE Ports, 4x USB 3.0



- Intel® 3rd-Gen i7 Quad-core superb performance
- Integrated 4x GigE POE ports, software programmable On/Off
- Up to 8x GigE PoE ports
- -25 °C to 70 °C fanless operation
- Optional Intelligent ignition power control for vehicle applications
- Optional isolated DIO with Change-of-State interrupt support

Introduction

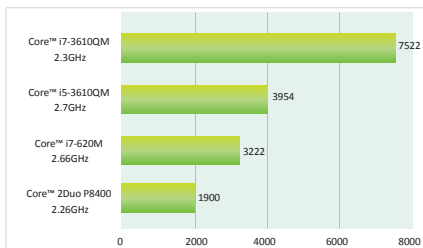
Nuvo-3005E-POE is the embedded PoE version of Nuvo-3005E Series. It is a perfect solution for video analytics surveillance applications. The embedded 4x GigE PoE ports could provide Ethernet communication and 15.4W power to PD devices such as PoE cameras. Each PoE port could be turned on/off by software to save the efforts of operations and maintenance. With the patented cassette, additional 4x GigE PoE ports could be added to form 8x GigE PoE computer system for mission critical applications.



Product Highlights

Quad-core Superb Performance

Nuvo-3005E-POE incorporates the cutting-edge 3rd-Gen i7 Quad-core processor and versatile I/O functions such as Gigabit Ethernet ports, USB 3.0 ports. The superb computing power could ensure your video capture and analytics tasks running well without failures.



* The CPU benchmark is performed using Passmark PerformanceTest 7 based on Win7 64bit OS.

Innovative Expansion Cassette

Even with rich functions and high power consumption, the intelligent Architect of Nuvo-3000 could operate within wide operating temperature range and rugged environment.



Intelligent Ignition Control with Adjustable On/off Delay

Embedded Ignition control provides intelligent control on Power On/ Power off delay to turn on/off the computer at right timing. 8 Pre-set Power on/Power off delay modes are well designed to meet all kinds of operational situations. On board isolated digital 8x inputs/ 8x Outputs are provided also to control the on/ off of additional devices.



Application



1. Machine Vision
2. In-vehicle Monitoring & Management
3. Medical Imaging
4. Surveillance/Security

Nuvo-3005E-PoE Series Specifications

System Core		Expansion Bus	
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)	Mini PCI-E	1x internal mini PCI Express socket with USIM socket 1x internal mini PCI Express socket
Chipset	Intel® HM76 Platform Controller Hub	PCI/PCI Express	1x PCIe x8 slot via x16 connector in Cassette
Graphics	Integrated Intel® HD Graphics 4000 Controller (i7/i5)	Power Supply & Ignition Control	
Memory	2x 204-pin SO-DIMM sockets, up to 16 GB DDR3 1333/1600 MHz SDRAM	DC Input	1x 4-pin power connector for 8~25V DC input
I/O Interface		Ignition Control	1x 3-pin pluggable terminal block for ignition signal input (IGN/GND/V+) (Optional)
Ethernet	Nuvo-3005E :	Remote Ctrl. & Status Output	1x 10-pin (2x5) wafer connector for remote on/off control and status LED output
	Nuvo-3005E with OPT POE4: Embedded 4x Gigabit PoE ports (15.4W / IEEE 802.3af) by Intel® i210, software programmable 1x Gigabit Ethernet port by Intel® i210.	Mechanical	
Video Port	1x DB-15 connector for analog RGB, supporting 2048x1536 resolution 2x DVI-I connectors for DP/HDMI/DVI outputs, supporting 1920x1080 resolution (2x Video Outputs maximum)	Dimension	240 mm (W) x 225 mm (D) x 90 mm (H)
USB	4x USB 3.0 ports and 4x USB 2.0 ports	Weight	4.4 Kg (including 2.5" HDD and DDR3 SODIMM)
Serial Port	2x software-programmable RS-232/422/485 (COM1 & COM2)	Mounting	Wall-mounting (standard) or DIN-Rail mounting (optional)
Isolated DIO	8x isolated DI with COS interrupt and 8x isolated DO(Optional)	Environmental	
KB/MS	1x 6-pin mini-DIN connector for PS/2 keyboard/mouse	Operating Temperature	-25°C ~ 70°C **/** (with i5-3610ME & Celeron 1020E) -25°C ~ 60°C **/** (with i7-3610QE)
Audio	1x mic-in and 1x speaker-out	Storage	-40°C ~ 85°C
Storage Interface		Humidity	10%~90% , non-condensing
SATA HDD	1x Internal SATA port for 2.5" HDD/SSD installation	Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
CFast	1x CFast socket	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
		MTBF	93,732 hours

* 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-3005E-I7QC

Intel® Core™ i7-3610QE fanless controller with 5x GbE and PCI **Cassette**

Nuvo-3005E-I5DC

Intel® Core™ i5-3610ME fanless controller with 5x GbE and x8 PCI Express **Cassette**

Nuvo-3003E-C1020

Intel® Celeron™ 1020E fanless controller with 3x GbE and x8 PCI Express **Cassette**

OPT POE4-Embedded 4x GigE PoE Ports

Option of isolated digital input/output (8DI + 8DO)

Option of ignition power control

Option of Smart Fan for expansion cassette

PCIe-PoE4P : PCIe 4x GigE POE ports Card

Option of DIN-Rail mounting kit

PA-160W AC/DC power adapter

PA-120W AC/DC power adapter

Packing list

1x Nuvo-3000 Unit

1x Accessory Box

1x Driver CD