

Surveillance/ Video Analytics



# Nuvo-3616VR Series

Intel® 3rd-Gen Core™ i7/ i5 Fanless Surveillance System Featuring 16x 802.3at PoE+ Ports and Four 2.5" Hard Drives with RAID Support



## Key Features

- Intel® 3rd-Gen i7 quad-core processor
- Up to 16x IEEE 802.3at (25.5W) PoE+ ports
- Rugged, -25 °C to 60 °C fanless operation
- Four 2.5" SATA HDDs with RAID 0/ 1/ 5/ 10 support
- Patented easy-swap trays\* for HDD replacement
- 8~35V wide-range DC input with built-in ignition power control
- Per-port power on/ off control for each PoE+ port

\*R.O.C Patent No. M491241

## Introduction

Nuvo-3616VR is a surveillance platform that features 16 PoE+ ports, i7 CPU and RAID in a compact, fanless chassis. It is designed to meet requirements of a stationary or mobile surveillance system and is capable not only for video recording but also high-end video analytic purposes. A typical surveillance system uses a NVR to connect IP cameras and record video streams on its disk array. Similar to a NVR, Nuvo-3616VR features 16 PoE+ ports and built-in disk array for video recording. Each of its 802.3at PoE+ ports can supply 25.5W to power a bullet, dome or PTZ camera. Nuvo-3616VR can also accommodate 4 hard drives with RAID support. Not your typical off-the-shelf NVR, Nuvo-3616VR comes with a quad-core i7 CPU to offer exceptional computing performance to facilitate advanced video analytics algorithms.

Nuvo-3616VR inherits Neosys' proven fanless architecture to ensure true wide-temperature operation. Two of its four 2.5" drives come with Neosys' patented easy-swap trays for simple HDD/ SSD replacement. Nuvo-3616VR also features 8~35V wide-range DC input and ignition control for stationary or in-vehicle usage. Combining numerous PoE+ ports, RAID storage and superb computing power, Nuvo-3616VR opens a new page for surveillance applications!

## Specifications

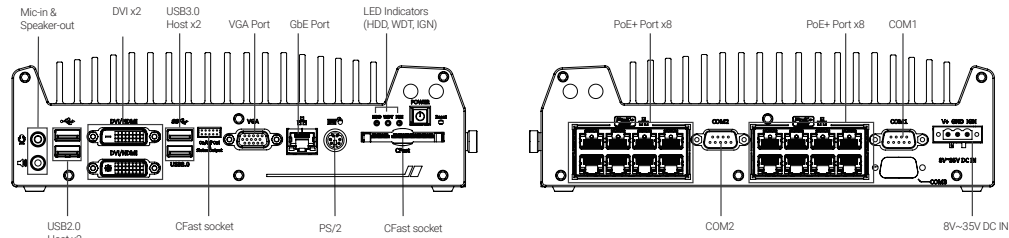
Nuvo-3616VR		Nuvo-3608VR		Nuvo-3616VR		Nuvo-3608VR	
System Core				Expansion Bus			
Processor		Intel® Core™ i7-3610QE (2.3/ 3.3 GHz, 6 MB cache) Intel® Core™ i5-3610ME (2.7/ 3.3 GHz, 3 MB cache)		Mini PCI-E		1x internal mini PCI Express socket with USIM socket 1x internal mini PCI Express socket	
Chipset		Intel® QM77 Platform Controller Hub with AMT & RAID support		Power Supply & Ignition Control			
Graphics		Integrated Intel® HD Graphics 4000 Controller		DC Input		1x 3-pin pluggable terminal block for 8~35V DC input (for direct DC wiring)	
Memory		Up to 16 GB DDR3 1333/ 1600 MHz SDRAM (two SO-DIMM slots)		Ignition Control		Ignition power control with configurable on/ off delay (V+/ GND/ IGN)	
I/O Interface				Remote Ctrl. & Status Output		1x 10-pin (2x5) wafer connector for remote on/ off control and status LED output	
Ethernet		1x Gigabit Ethernet ports by Intel® 82579LM		Mechanical		Dimension	
PoE		16x IEEE 802.3at (25.5W) PoE+ Ports with per-port power on/ off control 160W total power budget	8x IEEE 802.3at (25.5W) PoE+ Ports with per-port power on/ off control 80W total power budget			240 mm (W) x 255mm (D) x 71 mm (H)	
Video Port		1x DB-15 connector for analog RGB, supporting 2048x1536 resolution 2x DVI-D connectors for DVI outputs, supporting 1920x1080 resolution		Weight		5.0 Kg	
USB		2x USB3.0 ports and 2x USB2.0 ports		Mounting		Wall-mounting	
Serial Port		2x software-programmable RS-232/ 422/ 485 (COM1 & COM2)		Environmental		Operating Temperature	
KB/MS		1x 6-pin mini-DIN connector for PS/2 keyboard/mouse				-25°C ~ 60°C */**	
Audio		1x Mic-in and 1x speaker-out		Storage Temperature		-40°C ~ 85°C	
Storage Interface				Humidity		10%~90% , non-condensing	
SATA HDD		4x Internal SATA ports for 2.5" HDD/ SSD installation with RAID 0/ 1/ 5/ 10		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	

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

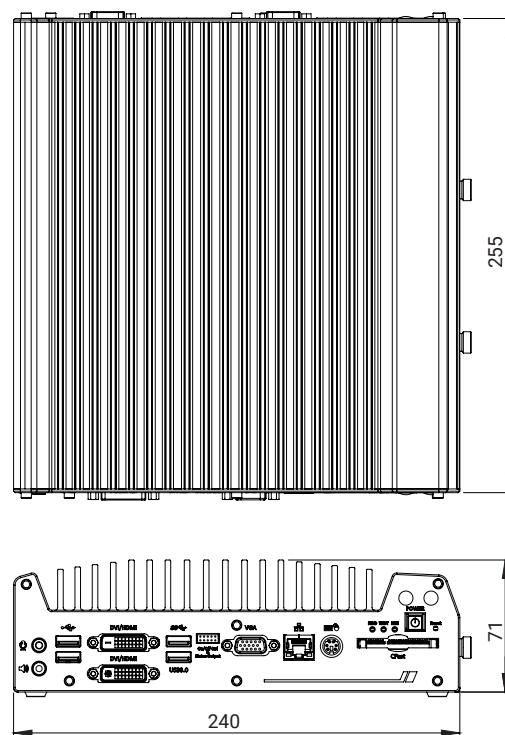
Nuvo-3616VR Series



## Appearance



## Dimensions



## Ordering Information

Model No.	Product Description
Nuvo-3616VR	Intel® 3rd-Gen Core™ i fanless surveillance system with 16x GigE PoE+ Ports and 4-drives RAID
Nuvo-3608VR	Intel® 3rd-Gen Core™ i fanless surveillance system with 8x GigE PoE+ Ports and 4-drives RAID

## Optional Accessories

PA-280W-OW	280W AC/DC power adapter 24V/11.67A;16AWG/100cm; cord end terminals for terminal block, operating temperature : -30 to 60 °C.
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## 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.

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