

Nuvo-5608VR Series

Intel® 6th-Gen Core™ i7/i5 Fanless Surveillance System with 8x PoE+, DIO, CAN bus and 2x 3.5" HDD Accommodation Supporting RAID 0/1



Key Features

- Supports Intel® 6th-Gen Core™ i7/ i5/ i3 LGA1151 socket-type processor
- 8x 802.3at PoE+ ports and 2x GbE ports
- 2x 3.5" HDD accommodation, support RAID 0/1 with over 24 TB capacity
- Dedicated HDD heat-spreader for optimized thermal performance
- 4x full-size mini-PCIe sockets with SIM support
- 4-CH isolated DI and 4-CH isolated DO
- 1x CAN 2.0 port
- 8~35V wide-range DC input with built-in ignition power control
- Patented damping brackets* to withstand 1 Grms Vibration

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*R.O.C Patent No. M491752

Introduction

Nuvo-5608VR is Neosys' latest fanless surveillance system designed for real-time video analysis and streaming. It incorporates 6th-Gen Core™ i CPU, IP camera connectivity and massive storage capacity for emerging intelligent surveillance/ security applications.

Featuring eight Gigabit PoE+ ports, Nuvo-5608VR provides sufficient bandwidth to collect high-definition video streams from IP cameras, while its 6th-Gen Core™ i7 CPU is capable of performing real-time video analytics. It accommodates two 3.5" hard drives with RAID 0/ 1 configuration to support more than 24 TB storage capacity for recording 8-CH, 1080p@H.264 video for over 3 months.

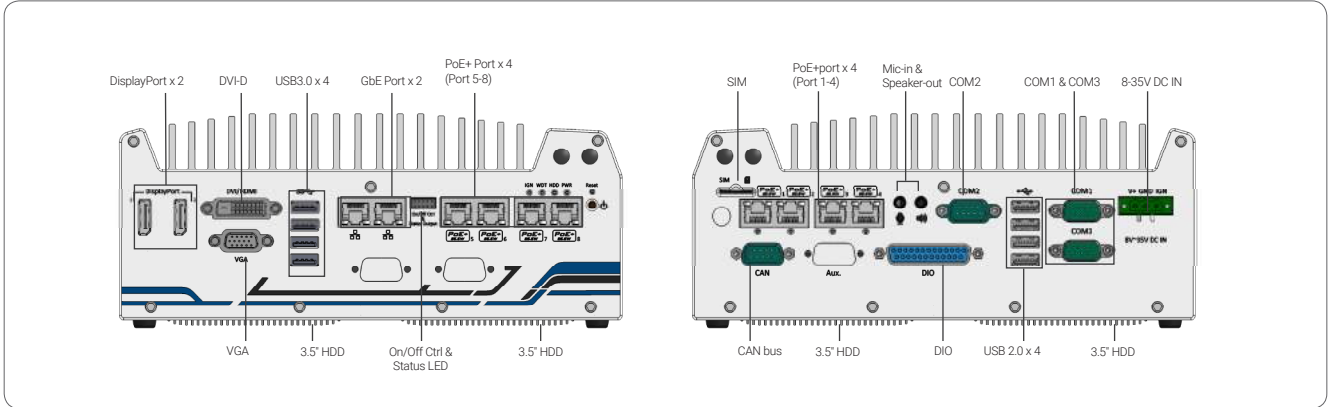
Neosys' patented damping-bracket is shipped with Nuvo-5608VR to protect the system against vibration in harsh environmental conditions.

Being a rugged surveillance platform, Nuvo-5608VR is equipped with dedicated HDD heat-spreaders to maintain adequate HDD operating temperature and along with extra features such as DIO, CAN bus and ignition control, Nuvo-5608VR is the perfect fit for both stationary and mobile surveillance applications.

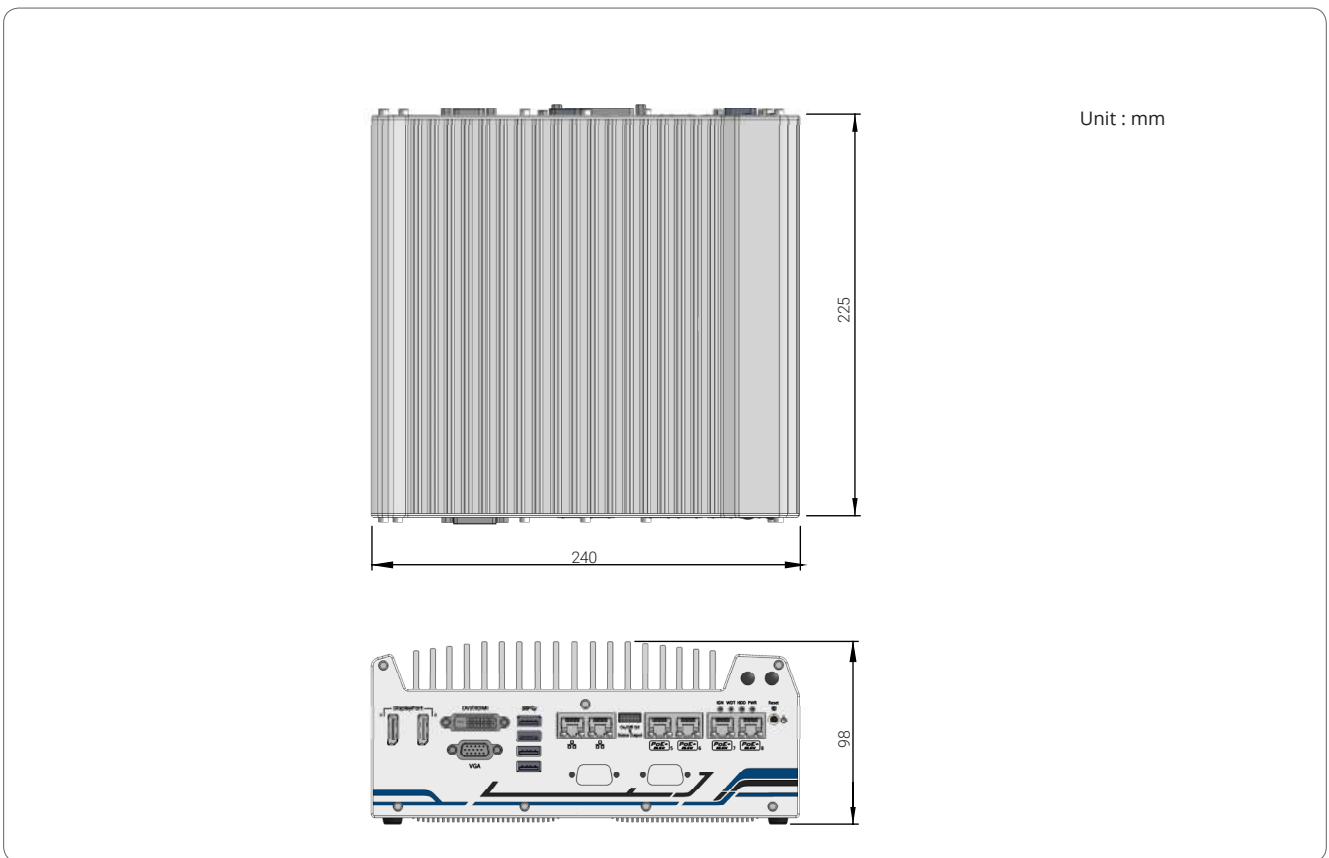
Specifications

System Core		Expansion Bus	
Processor	Supports 6th-Gen Intel® Core™ i7/ i5/ i3 LGA1151 CPU Intel® Core™ i7-6700 (8M Cache, 3.4/ 4.0 GHz, 65W TDP) Intel® Core™ i5-6500 (6M Cache, 3.2/ 3.6 GHz, 65W TDP) Intel® Core™ i3-6100 (3M Cache, 3.7 GHz, 51W TDP) Intel® Core™ i7-6700TE (8M Cache, 2.4/ 3.4 GHz, 35W TDP) Intel® Core™ i5-6500TE (6M Cache, 2.3/ 3.3 GHz, 35W TDP) Intel® Core™ i3-6100TE (4M Cache, 2.7 GHz, 35W TDP)	mini-PCIe	1x full-size mini-PCIe socket with panel-accessible SIM socket 1x full-size mini-PCIe socket with internal SIM socket (mux with mSATA) 2x full-size mini-PCIe sockets (USB signals only) with internal SIM sockets
Chipset	Intel® Q170 platform controller hub	Power Supply	DC Input: 1x 3-pin pluggable terminal block for 8~35VDC DC input (IGN/GND/V+)
Graphics	Integrated Intel® HD graphics 530	Remote Ctrl. & Status Output	1x 10-pin (2x5) wafer connector for remote on/off control and status LED output
Memory	Up to 32 GB DDR4-2133 SDRAM (two SO-DIMM slots)	Mechanical	Dimension : 240 mm (W) x 225 mm (D) x 98 mm (H)
AMT	Supports AMT 11.0	Weight	3.5 kg
TPM	Supports TPM 2.0	Mounting	Neosys' patented damping bracket
I/O Interface		Environmental	
Ethernet port	2x Gigabit Ethernet ports by Intel® I219 and I210	Operating Temperature	with 35W CPU -25°C ~ 70°C (with mSATA/SSD) ** -10°C ~ 60°C (with 3.5" HDD) **/***
PoE+	8x IEEE 802.3at (25.5W) Gigabit PoE+ ports by Intel® I210, 120W total power budget*	Storage Temperature	with 65W CPU -25°C ~ 50°C (with mSATA/SSD) ** -10°C ~ 60°C (with 3.5" HDD) **/***
USB	4x USB3.0 ports via native XHCI controller 4x USB 2.0 ports	Humidity	-40°C ~ 85°C
Video Port	1x stacked VGA + DVI-D connector 2x DisplayPort connectors, supporting 4K2K resolution	Vibration	Operating, 1 Grms, 5-500 Hz, 3 Axes (w/ HDD and damping bracket installed, according to IEC60068-2-64)
Serial Port	2x software-programmable RS-232/ 422/ 485 ports (COM1 & COM3) 1x RS-232 port (COM2)	Shock	Operating, 30 Grms, Half-sine 11 ms Duration (w/ HDD and damping bracket installed, according to IEC60068-2-27)
Isolated DIO	4x isolated DI and 4x isolated DO	EMC	CE/ FCC Class A, according to EN 55032 & EN 55024
CAN	1x CAN 2.0 port	* The total power budget for Nuvo-5608VR is related to input voltage. 120W total budget is available with 24 VDC input. When 12 VDC input is applied, the total power budget is limited to 100W.	
Audio	1x Mic-in and 1x speaker-out	** Operating temperature is verified with 100% CPU loading and 100% HDD loading applied using Passmark® BurnInTest 8.0. For detail testing criteria, please contact Neosys Technology.	
Storage Interface		*** Depending on the HDD selected, users may encounter performance degradation in sequential disk write at low/high ambient temperature. No data integrity issue was observed in -10°C ~ 60°C operating temperature range.	
SATA HDD	2x internal SATA port for 3.5" HDD installation, supporting RAID 0/ 1		
mSATA	1x full-size mSATA port (mux with mini-PCIe)		

Appearance



Dimensions



Ordering Information

Model No.	Product Description
Nuvo-5608VR	Intel® 6th-Gen Core™ fanless surveillance system with 8x PoE+ Ports, DIO, CAN bus and 2x 3.5" HDD RAID

Optional Accessories

PA-160W-OW	160W AC/DC power adapter 20V/8A;18AWGx4C/120cm; cord end terminals for terminal block, operating temperature : -30 to 70 °C.
PA-280W-ET2	280W AC/DC power adapter 24V/11.67A;16AWG/100cm; cord end terminals for terminal block, operating temperature : -30 to 60 °C.