Nuvo-8034

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Intel® 9th/8th-Gen Core™ i7/ i5/ i3 Rugged Embedded Computer with 7 PCIe/ PCI Expansion Slots



Key Features

- Supports Intel® 9th/8th-Gen Core™ i7/ i5 /i3 LGA1151 CPU
- Two x16 PCIe, two x8 PCIe, and three PCI slots
- Supports single NVIDIA® GPU card with up to 180W TDP
- 8-ch isolated DI and 8-ch isolated DO
- · 2x GbE ports with screw-lock
- 4x USB 3.1 Gen2 and 4x USB 3.1 Gen1 ports with screw-lock
- · Two front-accessible, hot-swappable 2.5" SATA HDD/ SSD with RAID 0/1 support
- M.2 2280 M key NVMe (Gen3 x4) for fast storage access

Introduction

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Nuvo-8034 is a new-breed of box-PC offering 7 expansion slots in a comparatively compact size. Of its four PCIe slots, two are x16 slots (@Gen3, 8-lanes) connected directly to the CPU PEG port to deliver up to 8 GB/s bandwidth for GPU and high speed I/O cards, and two are x8 slots (@Gen3, 4-lanes) from PCH for general-purpose usage. The system is capable of accmmodating one 180W NVIDIA® GPU for modern Al applications. Additionally, there are 3 PCI slots to support legacy PCI cards for general industrial usage.

Nuvo-8034 supports Intel® 9th/8th-Gen Core™ i processor with workstation-grade Intel® C246 chipset to offer superior computing power. Utilizing Neousys' distinctive power design, Nuvo-8034 can handle heavy power consumption of multiple PCIe and PCI expansion cards with 8~48V widerange DC input. The system features two hot-swappable trays that support 2.5" SATA SSD/ HDD on the front panel with RAID 0/1 support, making it easier to access when placed inside a cabinet. External I/O wise, Nuvo-8034 offers 8-channel isolated DI and 8-channel isolated DO for industrial automation, eight USB 3.1 Gen1/ Gen2 ports with screw-lock for USB3 cameras.

With an assortment of I/O ports and flexible 7-slot PCIe/ PCI expandability, Nuvo-8034 is an all-around rugged solution that can satisfy various industrial applications such as machine vision, industrial automation and data analytics.

Specifications

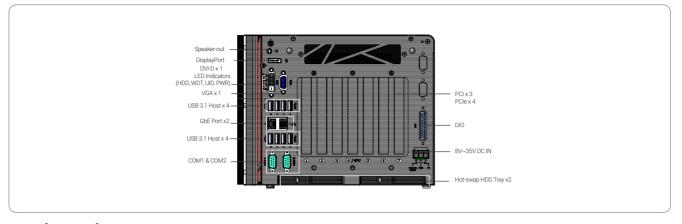
System Core	
Processor	Supporting Intel® Xeon® E and 9th/8th - Gen CPU (LGA1151 socket) - Intel® Xeon® Processor E-2176G/ E-2124G/ E-2278GE/ E-2278GEL - Intel® Core™ i7-9700E/ i7-9700TE/ i7-8700/ i7-8700T - Intel® Core™ i5-9500E/ i5-9500TE/ i5-8500/ i5-8500T - Intel® Core™ i3-9100E/ i3-9100TE/ i3-8100/ i3-8100T
Chipset	Intel® C246 platform controller hub
Graphics	Independent GPU via x16 (@ x8 signals) PEG port, or integrated Intel® UHD graphics 630
Memory	Up to 128 GB ECC/ non-ECC DDR4 2133 SDRAM (four SODIMM slots)
AMT	Supports AMT 12.0
TPM	Supports TPM 2.0
I/O Interface	
Ethernet	1x Gigabit Ethernet port by Intel® I219-LM with screw-lock 1x Gigabit Ethernet port by Intel® I210-IT with screw-lock
Video Port	1x VGA, supporting 1920 x 1200 resolution 1x DVI-D, supporting 1920 x 1200 resolution 1x DisplayPort, supporting 4096 x 2304 resolution
Serial Port	2x software-programmable RS-232/422/485 ports (COM1/ COM2) 2x RS-232 ports (COM3/ COM4)
USB 3.1	4x USB 3.1 Gen2 (10 Gbps) ports with screw-lock 4x USB 3.1 Gen1 (5 Gbps) ports with screw-lock
USB 2.0	1x USB 2.0 port (internal use)
Isolated DIO	8x isolated DI and 8x isolated DO
Audio	1x 3.5 mm jack for mic-in and speaker-out
Storage Interfa	ace
SATA HDD/ SSD	2x hot-swappable trays for 2.5" HDD/ SSD installation, supporting RAID 0/ 1
M.2	1x M.2 2280 M key socket (PCle Gen3 x4) for NVMe SSD or Intel [®] Optane™ memory

Storage Interf	ace
mSATA	2x full-size mSATA port (mux with mini-PCle)
Internal Expa	nsion Bus
PCI Express	2x PCle x16 slot@Gen3, 8-lanes 2x PCle x8 slots@Gen3, 4-lanes
PCI	3x 33MHz/ 32-bit 5V PCI slots
M.2	1x M.2 2242 B key socket supporting dual SIM mode with selected M.2 LTE module
mini-PCle	1x full-size mini PCI Express socket with internal SIM socket (mux. with mSATA)
Power Supply	
DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input
Remote Ctrl.	1x 3-pin pluggable terminal block for remote control
Mechanical	
Dimension	259mm(W) x 280mm(D) x 198mm(H)
Weight	7kg
Mounting	Wall-mount
Environmenta	ı
Operating Temperature	-25°C ~ 60°C with 100% CPU/ GPU loading
Storage Temperature	-40°C ~ 85°C
Humidity	10%~90%, non-condensing
Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4
Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II
EMC	CE/FCC Class A, according to EN 55032 & EN 55024

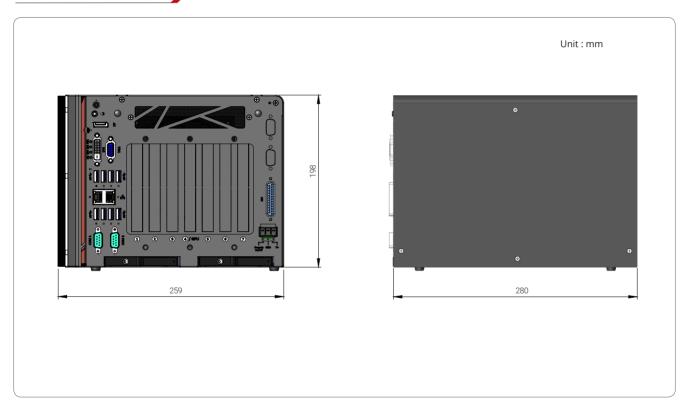
ottling may occur when sustained full-loading applied. Users can configure CPU power in BIOS to btain higher operating temperature. [.] For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.



Appearance



Dimensions



Ordering Information

Model No.	Product Description
Nuvo-8034	Intel® 9th/ 8th-Gen Core™ i7/ i5/ i3 embedded computer with 2x PCle x16(@ x8 signals), 2x PCle x8(@ x4 signals) and 3x PCl slots

Optional Accessories

PA-160W-OW	160W AC-DC power Adapter, 20V 8A , 90~264VAC 127~370VDC, Open-Wire Terminal, -30°C~70°C
PA-280W-ET2	280W AC/DC power adapter 24V/11.67A; 16AWG/100cm; cord end terminals for terminal block, operating temperature: -30°C to 60°C
PA-480W-DIN	480W AC-DC power Adapter(SDR-480-24) DIN-rail mount, 24V 20A, 90~264VAC/127~370VDC, Terminal Block, -20°C~70°C
Cbl-IDC210F-DB9M-20CM	10Pin Female to DB9 Male Cable, 20CM