

Rugged Embedded



Nuvo-8034

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

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Introduction

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) (LGA1151 socket) -Intel® Xeon® Processor E-2176G/ E-2124G/ E-2278GE/ E-2278GEL -Intel® Core |
| 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 Interfac | ce |
| 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 |

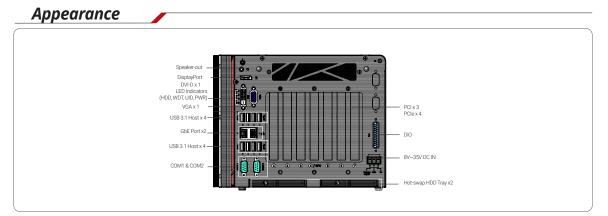
| Storage Interfa | ace |
|--------------------------|---|
| mSATA | 2x full-size mSATA port (mux with mini-PCIe) |
| Internal Expan | sion Bus |
| PCI Express | 2x PCle x16 slot@Gen3, 8-lanes 2x PCle x8 slots@Gen3, 4-lanes |
| PCI | 3x 33MHz/ 32-bit 5V PCI slots |
| M.2 | 1xM.22242B key socket supporting dual SIM mode with selected M.2 LTE module |
| mini-PCIe | 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 |
| Environmental | |
| 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 |

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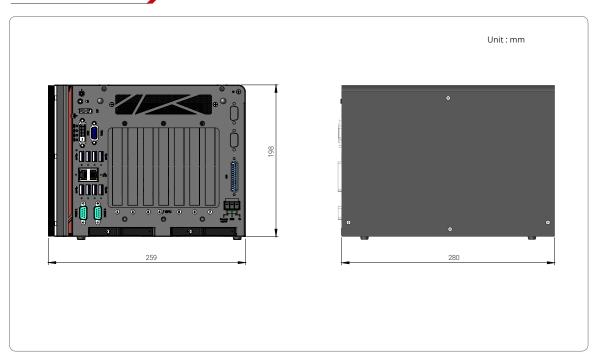


Nuvo-8034





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 |

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All specifications and photos are subject to change without prior notice



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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