

Nuvo-8111

Cost-effective AI platform for factory automation supporting NVIDIA® 200W GPU and Intel® 9th/ 8th-Gen Core™ processor

Features

- Supports NVIDIA® GPU cards up to 200W TDP
- Supports Intel® 9th/ 8th-Gen Core™ i7/ i5/ i3, Pentium® and Celeron® LGA1151 CPU
- Additional x4 PCIe, and a PCI slot for add-on cards
- 2x GbE, 4x USB 3.1 Gen1 and 5x COM ports
- Dual DVI display outputs
- Up to 2x 2.5" SATA HDD/ SSD accommodation and 1x mSATA
- -25°C to 60°C wide-temperature operation

System

CPU	Supporting Intel® 9th/ 8th-Gen Core™ CPU (LGA1151 socket) - Intel® Core™ i7-9700TE/ i7-8700*/ i7-8700T - Intel® Core™ i5-9500TE/ i5-8500*/ i5-8500T - Intel® Core™ i3-9100TE/ i3-8100*/ i3-8100T - Intel® Pentium® G5400T (4M Cache, 3.1GHz, 35W TDP) - Intel® Celeron® G4900T (2M Cache, 2.9GHz, 35W TDP)
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Chipset	Intel® H310 platform controller hub
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RAM	Up to 32 GB DDR4 2666 SDRAM (one SODIMM slots)
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Storage Capacity	2x internal SATA ports for 2.5" HDD/ SSD installation 1x full-size mSATA port
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GPU	Integrated Intel® UHD graphics 630, or independent NVIDIA® RTX 3060/ 3060 Ti via x16 PEG port
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I/O

USB	4x USB 3.1 Gen 1 (5 Gbps) port 1x USB 2.0 port with Type-A connector (internal) 2x USB 2.0 port with 2x8 pins box header (internal)
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Ethernet	1x Gigabit Ethernet port by Intel® I219-LM 1x Gigabit Ethernet port by Intel® I210-IT
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Serial Ports	1x software-programmable RS-232/ 422/ 485 port (COM1) 1x software-programmable RS-422/ 485 port (COM2) 3x 3-wire RS-232 ports (COM3/ COM4/ COM5)
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Video	2x DVI-D connector, supporting 1920 x 1200 resolution
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Audio	1x 3.5 mm jack for mic-in and speaker-out
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Expansion Slots	1x PCIe x16 slot @Gen3, 16-lane (for GPU installation) 1x PCIe x4 slot @Gen2, 4-lane signal 1x 33MHz/ 32-bit 5V PCI slot 1x full-size mSATA socket (mux with USB 2.0 signals)
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Mechanical & Environment

DC Input	1x 3-pin pluggable terminal block for 24V DC input
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Dimensions	174mm (W) x 330 mm (D) x 174 mm (H)
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Weight	4.5 kg
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Mounting	Optional wall-mount bracket
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Operating temperature	-25°C to 60°C**
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Storage temperature	-40°C ~ 85°C
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Humidity	10%~90% , non-condensing
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Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4
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Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II
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Certification	CE/ FCC Class A, according to EN 55032 & EN 55035
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Front

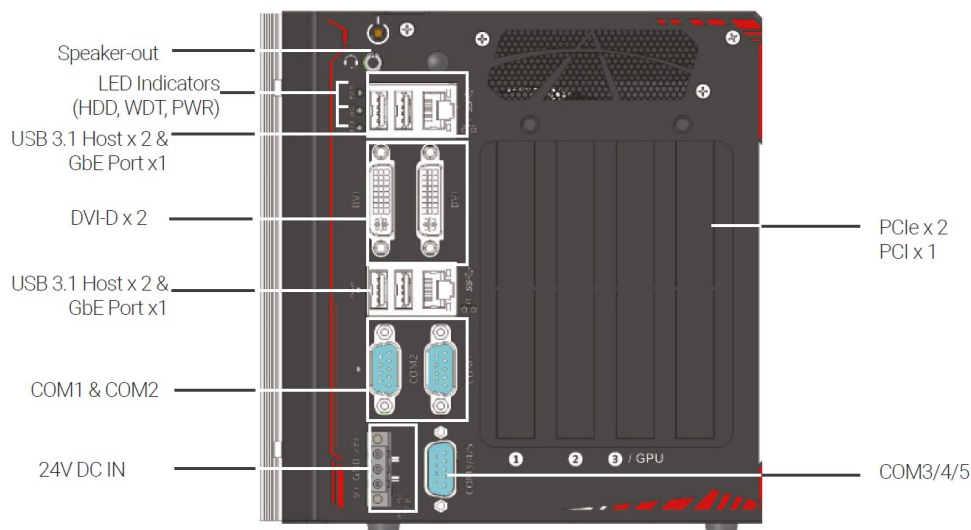


** For i7-9700/ 8700 running at 65W mode, the highest operating temperature shall be limited to 50°C and thermal throttling may occur when sustained full-loading is applied. Users can configure CPU power in the BIOS to obtain higher operating temperatures.

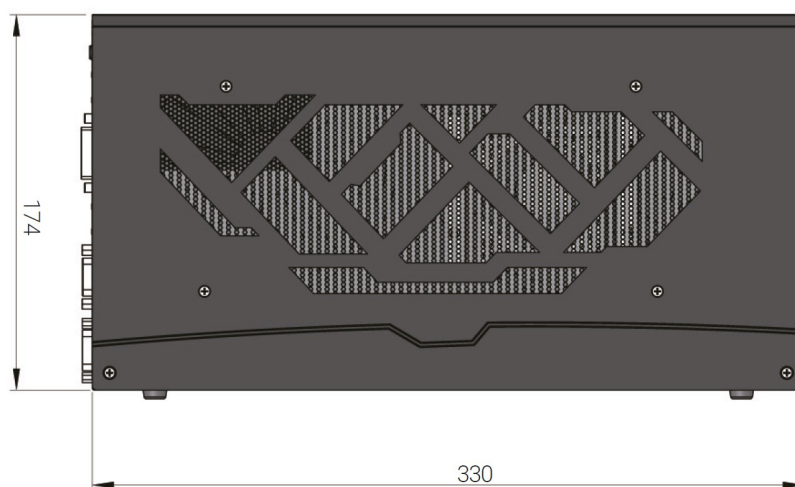
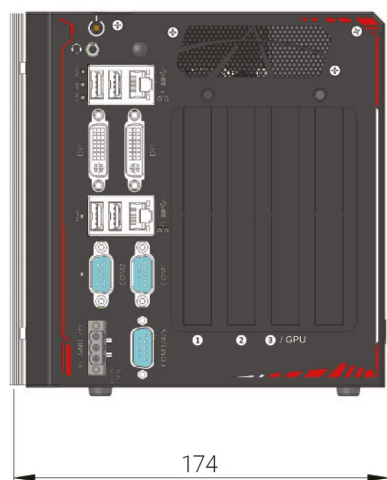
*** For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.

Nuvo-8111

Appearance



Dimensions (mm)



Ordering information

Model No: Nuvo-8111

Intel® 9th/ 8th-Gen Core™ i7/ i5/ i3 expansion box PC with 2x PCIe and 1x PCI, supporting NVIDIA® 200W graphics card

Optional Accessories

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

Wmkit-H-Nuvo8111

Wall mounting assembly for Nuvo-8111 series, horizontal type