

Nuvo-8111 Series

Cost-effective AI Platform for Factory Automation Supporting NVIDIA[®] 200W GPU and Intel[®] 9th/ 8th-Gen Core[™] Processor



Key Features

- · Intel[®] 9th/ 8th-Gen Core[™] i7/ i5/ i3, Pentium[®] and Celeron[®] LGA1151 CPU
- Supports NVIDIA[®] GPU up to 200W TDP
- An additional x4 PCIe, and a PCI slot for add-on cards
- -25°C to 60°C wide-temperature operation
- 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 socket

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Introduction

Nuvo-8111 series is a cost-effective box-PC with 3 expansion slots designed specifically to support an advanced mid to high-end 200W NVIDIA[®] graphics card, such as an RTX 3060/ 3060 Ti, to offer stunning edge AI performance. Offering tremendous GPU power up to 20 TFLOPS in FP32 for emerging GPU-accelerated applications, they boost the performance and efficiency of factory automation, image recognition, product inspection, pick and place robots, etc.

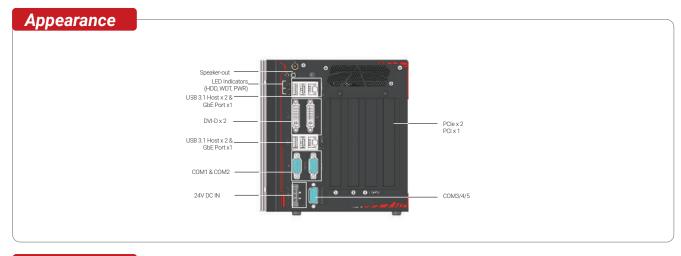
Nuvo-8111 series leverages an Intel[®] 9th/8th-Gen Core[™] processor with H310 chipset. It has one x16 Gen3 PCIe slot for accommodating a GPU card, and an additional x4 PCIe and a PCI slot for industrial I/O cards such as DIO, AIO, communication or motion control card. It features front-accessible I/Os including two GbE, four USB 3.1 Gen1 and five COM ports for easy access when it is rack-mounted or placed inside a cabinet. Storage-wise, the system supports two 2.5" SATA SSDs/ HDDs plus one mSATA socket to house an mSATA SSD.

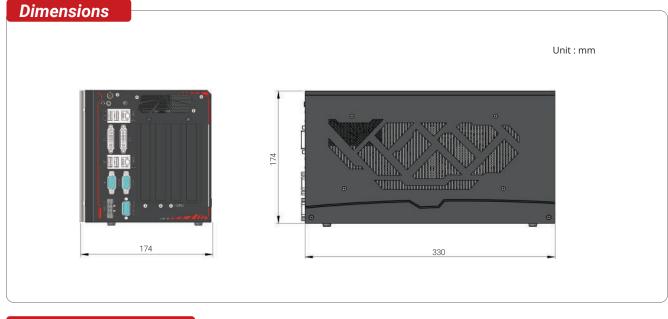
As edge AI demand continues to grow for traditional production and factory automation, Neousys Nuvo-8111 seeks to fulfill this need. With mid to high-end GPU support, expansion capability, compact and rugged design that plays an important role in bringing artificial intelligence to the edge and factory floors, the Nuvo-8111 is no doubt the most cost-effective AI platform for automation in its class!

Specifications

System Core		Internal Expansion Bus	
Processor	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, 2.36Hz, 35W TDP) - Intel [®] Celeron [®] G4900T (2M Cache, 2.96Hz, 35W TDP)	PCI Express	1x PCle x16 slot @Gen3, 16-lane (for GPU installation) 1x PCle x4 slot @Gen2, 4-lane signal
		PCI	1x 33MHz/ 32-bit 5V PCI slot
		Power Supply	
Chinaat		DC Input	1x 3-pin pluggable terminal block for 24V DC input
Chipset	Intel [®] H310 platform controller hub	Mechanical	
Graphics	Integrated Intel [®] UHD graphics 630, or independent NVIDIA [®] RTX 3060/ 3060 Ti via x16 PEG port	Dimension	174 mm (W) x 330 mm (D) x 174 mm (H)
Memory	Up to 32 GB DDR4 2666 SDRAM (one SODIMM slots)	Weight	4.5 kg
I/O Interface		Mounting	Optional wall-mount bracket
Ethernet	1x Gigabit Ethernet port by Intel® I219-LM 1x Gigabit Ethernet port by Intel® I210-IT	Environmenta Operating	
USB 2.0	1x USB 2.0 port with Type-A connector (internal)	Temperature	-25°C to 60°C**
036 2.0	2x USB 2.0 port with 2x8 pins box header (internal)	Storage	-40°C to 85°C
USB 3.1	4x USB 3.1 Gen1 (5 Gbps) ports	Temperature	
Video Port	2x DVI-D connector, supporting 1920 x 1200 resolution	Humidity	10% to 90% , non-condensing
Serial Port	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)	Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4
		Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I. Table 516.6-II
Audio	1x 3.5 mm jack for mic-in and speaker-out	EMC	CE/FCC Class A, according to EN 55032 & EN 55035
Storage Inter	rface		arrow contract of the highest operating temperature shall be limited to 50°C and
SATA HDD	2x internal SATA ports for 2.5" HDD/ SSD installation	 For 1/97002 and 1/6700 finiting at OWF index, the ingrest Operating temperature shall be initiated to so C and thermal throttling may occur when sustained full-loading applied. Users can configure CPU power in BIOS to obtain higher operating temperature. ** For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required. 	
mSATA	1x full-size mSATA port (SATA + USB 2.0 + USIM)		







Ordering Information

Model No. Nuvo-8111 **Product Description** 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 to 60°C

 Wmkit-H-Nuvo8111
 Wall mounting assembly for Nuvo-8111 series, horizontal type