

#### Rugged Embedded



## Nuvo-7501 Series

Intel® 8th/ 9th -Gen Core® i7/ i5/ i3 Compact Fanless Computer with 2x GbE and up to 6x COM



#### Key Features

- · Compact 255 x 173 x 76 mm footprint
- · Intel® 8th/ 9th-Gen Core™ 35W LGA1151 CPU
- · Rugged, -25°C to 60°C fanless operation
- · 2x GbE and 4x USB3.0
- $\cdot$  Up to 6x COM ports, optional isolation on ports 1  $\sim$  4
- · VGA + DVI dual display outputs
- · Accommodates one 3.5" or 2.5" HDD/ SSD
- · 8-CH isolated DI and 8-CH isolated DO (Nuvo-7505D only)

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#### Introduction

Nuvo-7501 series is a cost-effective, compact and yet powerful fanless embedded computer with a 255 x 173 x 76 mm footprint. Powered by an Intel® 8th/ 9th-Gen Core™ hexa/ octa core CPU, it offers more than 50% computation performance improvement over the previous generation. Nuvo-7501 series is designed to be simple and compact while retaining essential elements of a rugged embedded fanless solution. It features I/Os such as 2x GbE, 4x USB3.0 and 6x COM ports for common industrial applications. In addition to the M.2 2280 SATA SSD, it can also support a 2.5″ SSD/ HDD or a 3.5″ HDD. For Nuvo-7505D, it offers isolated DIO and isolated COM, which can protect the controller against ground loops in harsh environments.

The Nuvo-7501 series is a cost-effective solution that has retained quality materials all Neousys systems utilize; and the design flow/ stringent test procedures it must endure. It is a fanless embedded platform that has hit the sweet spot in terms of cost, size and performance. Nuvo-7501 series is an ideal fanless embedded solution for various industrial applications.

## **Specifications**

	Nuvo-7501	Nuvo-7505D		Nuvo-7501 Nuvo-7505D
System Core			Internal Expansion Bus	
Processor	Supporting Intel® 8th/ 9th-Gen Core™ CPU (LGA1151 socket) - Intel® Core™ i7-8700** / i7-87001* i7-97001* i7-97001* - Intel® Core™ i5-8500** i5-850017 i5-95001* j5-95001* - Intel® Core™ i3-8100*/ i3-810017 i3-91001* i3-91001*		Mini PCI-E	1x full-size mini PCI Express socket
			M.2	1x M.2 2242 B key socket with internal SIM socket
			Power Supply	
Chipset	Intel® H310 platform controller hub		DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input
Graphics	Integrated Intel® UHD graphics 630		Remote Ctrl &	1x 10-pin (2x5) pin header for
Memory	Up to 32 GB DDR4 2666/ 2400 SDRAM (one SODIMM slots)		Status Output	remote on/off control and status LED output
I/O Interface			Mechanical	
Ethernet port	2x Gigabit Ethernet	ports by I219 and I210	Dimension	255mm (W) x 173 mm (D) x 76 mm (H)
USB	4x USB 3.1 Ger	n1 (5 Gbps) ports	Weight	2.68 kg
	1x VGA connector, supporting 1920 x 1200 resolution		Mounting	Wall-mount or optional DIN-Rail
Video Port			Environmental	invironmental
Serial Port	2x software-programmable RS-232/ 422/ 485 ports (COM1/ COM2) 2x RS-232 ports (COM3/ COM4)	2x isolated software-programmable RS-232/ 422/ 485 ports (COM1/ COM2) 2x isolated RS-232 ports (COM3/ COM4) 2x RS-232 ports (COM5/ COM6)	Operating Temperature	-25°C ~ 60°C **
			Storage Temperature	-40°C ~85°C
Audio	1x 3.5 mm jack for mic-in and speaker-out		Humidity	10%~90%, non-condensing
Isolated DIO	N/A	8-CH isolated DI and 8-CH isolated DO	Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4
Storage Interface			Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-I
SATA HDD	1x internal SATA port for 3.5" HDD or 2.5" HDD/ SSD		EMC	CE/FCC Class A, according to EN 55032 & EN 55024
M.2	1x M.2 2280 SATA interface			tions, 65W CPUs will be configured to operate in 35W mode by default. ng temperature, a wide temperature HDD or Solid State Disk (SSD) is required.

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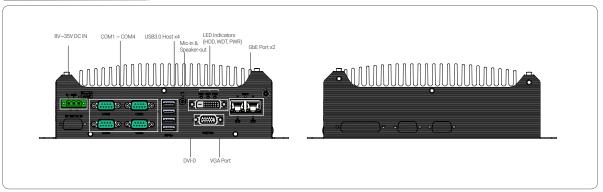
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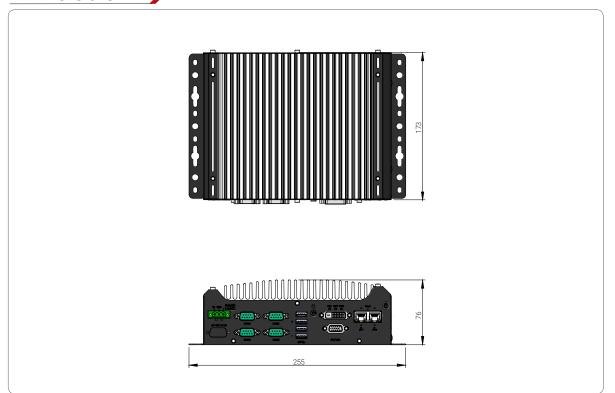
Nuvo-7501 Series



#### **Appearance**



#### **Dimensions**



## **Ordering Information**

Model No.	Product Description
Nuvo-7501	Intel® 8th/ 9th-Gen Core™ i7/ i5/ i3 compact fanless embedded computer with 2x GbE and 4x COM
Nuvo-7505D	Intel <sup>®</sup> 8th/ 9th-Gen Core™ i7/ i5/ i3 compact fanless embedded computer with isolated DIO, isolated COM and 2x GbE

### **Optional Accessories**

PA-120W-OW	120W AC/ DC power adapter 20V/ 6A; 18AWG/ 120cm; cord end terminals for terminal block, operating temperature: -30 to 70 °C	
DINRAIL-31	DIN-rail mounting assembly for Nuvo-7501 series	

www.neousys-tech.com

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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