

# Nuvo-7501 Series

Rugged fanless embedded PC with Intel® Core™ i7/i5/i3  
9th/8th Gen - MIL-STD-810G

## Features

- Intel® Core™ i7/i5/i3 8th/9th Gen
- Up to 32 GB DDR4 2666/ 2400 SDRAM
- Intel® H310 chipset
- Internal SATA port for 3.5" HDD or 2.5" SSD
- MIL-STD-810G



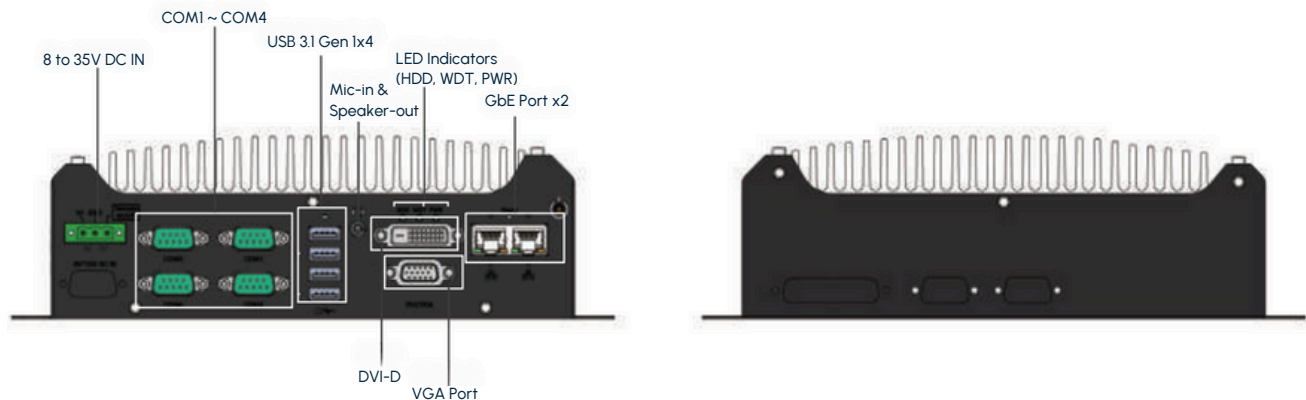
## Nuvo-7501 Series – Strong computing power and robust design

The Nuvo-7501 series systems are cost-effective fanless computers that offer high system performance in a compact size (255 x 173 x 76 mm footprint). The systems feature Intel® Core™ 9th and 8th generation processors with 6 and 8 processor cores respectively.

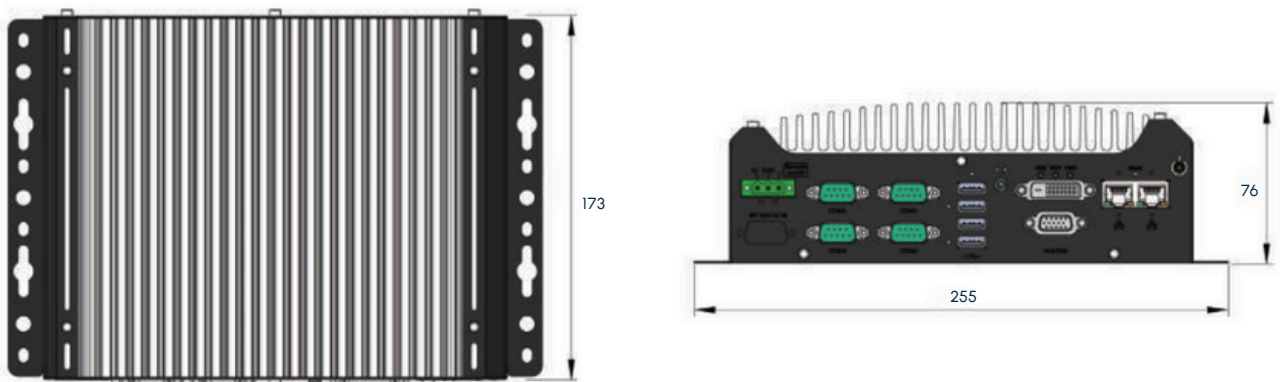
The Nuvo-7501 is designed to create a simple and compact embedded PC that has all the essential features of a rugged, fanless embedded solution. The embedded PC has I/O functions such as 2 GbE, 4 USB 3.0 and 4 COM ports, making it suitable for many frequently used industrial applications. In addition to the M.2 2280 SATA slot, there is also space for a 2.5-inch SSD or HDD or a 3.5-inch hard disk drive. The Nuvo-7505D product variant offers isolated DIO and isolated COM, which protects the controller from ground loops in harsh environments.

The Nuvo-7501 is the ideal fanless embedded solution for various industrial applications. Another product variant of the series is the Nuvo 7505D with Intel® 9th Gen/8th Gen Core™ i7/i5/i3 CPU, isolated DIO, isolated COM and 2 GbE ports.

## Appearance



## Dimensions (mm)



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9th/8th Gen - MIL-STD-810G

## Specifications

Nuvo-7501 Series	
<b>SYSTEM</b>	
CPU	Supports Intel® 9th/ 8th Gen CPU (LGA1151 socket) – Intel® Core™ i7-8700*/ i7-8700T/ i7-9700E*/ i7-9700TE – Intel® Core™ i5-8500*/ i5-8500T/ i5-9500E*/ i5-9500TE – Intel® Core™ i3-8100*/ i3-8100T/ i3-9100E*/ i3-9100TE
Chipset	Intel® H310
RAM	Up to 32GB DDR4 2666/ 2400 SDRAM (one SODIMM slot)
Storage	1x internal SATA port for 3.5" HDD or 2.5" SSD 1x M.2 2280 SATA interface
Expansion	1x Full-Size mini PCI Express socket 1x M.2 2242 B key socket with internal SIM socket
<b>INTERFACE</b>	
Ethernet	2x Gigabit Ethernet Ports Intel® I219 and I210
COM	2x RS-232/ 422/ 485 ports (COM1/ COM2) 2x RS-232 Ports (COM3/ COM4)
Video	1x VGA 1x DVI-D
Audio	1x 3.5 mm Mic-In and Speaker-Out
<b>ENVIRONMENTAL</b>	
Power Supply	1x 3-pin pluggable terminal block for 8 to 35 V DC input
Remote Control & LED	1x 10-pin (2x5) pin header for remote on/off control and status LED output
Operating Temperature	-25°C ~ 60°C **/**
Storage Temperature	-40° ~ 85°C
Vibration/Shock Resistance	Vibration: MIL-STD-810G, Method 514.6, Category 4 Shock: MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II
Humidity	10%~90%, non-condensing
Dimensions	(W x D x H): 255 x 173 x 76 mm
Weight	2.68 kg
Mounting	Din-Rail Mount (Standard) Wall-Mount (Optional)
Certifications	EMC: CE/FCC Class A, according to EN 55032 & EN 55024

\* Due to thermal constraints, 65 W CPUs are operated in 35 W mode by default.

\*\* When operating in ambient temperatures below 0°C, a hard drive with a special operating temperature range or an SSD is required.

\*\*\* For i7 CPUs, prolonged full-load operation at an ambient temperature of 60°C may result in thermal throttling.

## Ordering Information

	Nuvo-7501	Nuvo-7505D
CPU	Intel® 8th/ 9th-Gen Core™ i7/ i5/ i3	
Features	2x GbE 4x COM Ports	2x GbE Isolated DIO Isolated COM
Dimensions	255 x 173 x 76 mm	

## 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