

#### Rugged Embedded



## **Nuvo-5501 Series**

Intel® 6th-Gen Core® i7/ i5/ i3 Compact Fanless Embedded Controller with 3x GbE



### Key Features

- · Compact 221 x 173 x 76.2 mm footprint
- · Supports Intel<sup>®</sup> 6th-Gen Core<sup>™</sup> i7/ i5/ i3 LGA 1151 socket CPU
- · Rugged, -25°C to 70°C wide-temperature fanless operation
- · 3x GbE and 4x USB3.0 ports
- · 2x RS-232/ 422/ 485 ports and 2x RS-232 ports
- · VGA + DVI dual display outputs
- · Accommodates one 3.5" HDD or 2.5" HDD/ SSD
- · Optional 8-CH isolated DI and 8-CH isolated DO

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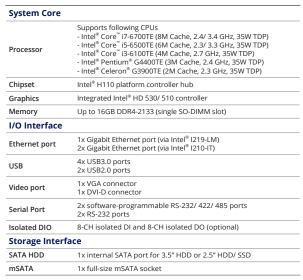
#### Introduction

Nuvo-5501 series features compact fanless embedded controllers for the cost and space conscious. Based on Intel® Skylake platform, it is designed to provide cutting-edge performance and reliable operation in extreme environment. Its LGA 1151 socket offers users the flexibility to select a 35W CPU from Intel® 6th-Gen Core® i to Celeron® lineup to suit application needs.

Nuvo-5501 is the most compact fanless embedded controller supporting Skylake LGA 1151 socket CPUs, measuring just  $221 \times 173 \times 76.2 \text{ mm}$ , it is easy to deploy in restricted spaces. In its compact enclosure, Nuvo-5501 features rich, front-accessible I/Os including 3x GbE, 4x USB3.0 and 4x COM ports. There is even enough room for a 3.5'' HDD, compatible with the latest storage capacities.

The compact Nuvo-5501 is a cost-effective solution that does not compromise on performance and reliability, making it the ideal embedded controller for various industrial applications.

### **Specifications**



Expansion Bus	/ Internal I/O Interface
mini-PCIe	1x full-size mini PCI Express socket
M.2	1x M.2 B key socket for 3G/ 4G options with SIM socket
USB	1x internal USB2.0 port
Remote Ctrl. & Status Output	1x 2x6-pin 2.0mm pin-header connector for remote on/off control and status LED output
Power Supply	
DC Input	1x 3-pin pluggable terminal block for 8~35 VDC power input
Mechanical	
Dimension	221 mm (W) x 173 mm (D) x 76 mm (H)
Weight	2.8 Kg (incl. CPU, memory and HDD)
Mounting	Wall-mount (standard) or DIN-rail mount (optional)
Environmental	
Operating Temperature	-25°C ~ 70°C */**
Storage Temperature	-40°C ~ 85°C
Humidity	10%~90%, non-condensing
Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
Shock	Operating, 50 Grms, half-sine 11 ms duration (w/ SSD, according to IEC60068-2-27)
EMC	CE/ FCC Class A, according to EN 55022, EN 55024 & EN 5503

<sup>\*</sup> The 100% CPU loading is applied using Passmark® BurnInTest 8.1. For detail testing criteria, please contact

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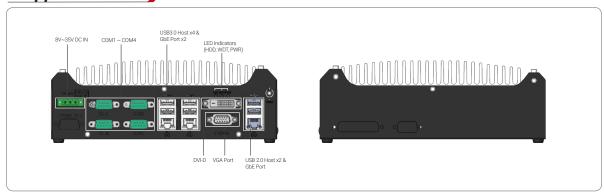
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\*\*For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.



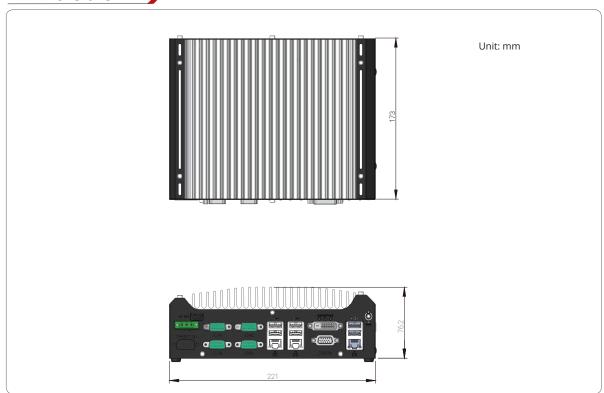
Nuvo-5501 Series



#### **Appearance**



#### **Dimensions**



## **Ordering Information**

Model No.	Product Description
Nuvo-5501	Intel <sup>®</sup> 6th-Gen Core™ compact fanless embedded controller with 3x GbE
Nuvo-5501-DIO	Intel® 6th-Gen Core™ compact fanless embedded controller with isolated DIO & 3x GbE

## **Optional Accessories**

DINRAIL-31	DIN-rail mounting assembly for Nuvo-5501 series
PA-120W-OW	120W AC/DC power adapter 20V/6A; 18AWG/120cm; cord end terminals for terminal block, operating temperature : -30 to 70 °C.

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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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