

# **Nuvo-5501 Series**

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



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#### Key Features

- · Compact 221 x 173 x 76.2 mm footprint
- · Supports Intel® 6th-Gen Core™ 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™ it 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 x 173 x 76.2 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**

System Core		
Processor	Supports following CPUs - Intel® Core® i7-6700TE (8M Cache, 2.4/ 3.4 GHz, 35W TDP) - Intel® Core® i5-6500TE (6M Cache, 2.3/ 3.3 GHz, 35W TDP) - Intel® Core® i3-6100TE (4M Cache, 2.7 GHz, 35W TDP) - Intel® Core® G4400TE (3M Cache, 2.4 GHz, 35W TDP) - Intel® Celeron® G3900TE (2M Cache, 2.3 GHz, 35W TDP)	
Chipset	Intel® H110 platform controller hub	
Graphics	Integrated Intel® HD 530/ 510 controller	
Memory	Up to 16GB DDR4-2133 (single SO-DIMM slot)	
I/O Interface		
Ethernet port	1x Gigabit Ethernet port (via Intel® 1219-LM) 2x Gigabit Ethernet port (via Intel® 1210-IT)	
USB	4x USB3.0 ports 2x USB2.0 ports	
Video port	1x VGA connector 1x DVI-D connector	
Serial Port	2x software-programmable RS-232/ 422/ 485 ports 2x RS-232 ports	
Isolated DIO	8-CH isolated DI and 8-CH isolated DO (optional)	
Storage Interface		
SATA HDD	1x internal SATA port for 3.5" HDD or 2.5" HDD/ SSD	
mSATA	1x full-size mSATA socket	

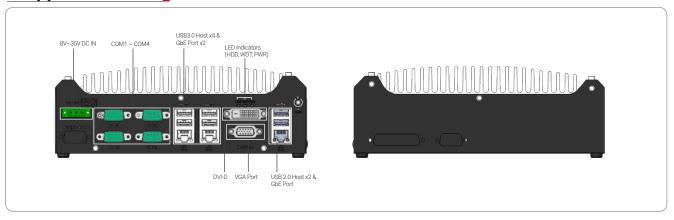
Expansion Bus/	Expansion Bus/ Internal I/O Interface		
mini-PCle	1x full-size mini PCI Express socket		
M.2	1x M.2 B key socket for 3G/ 4G options with SIM socket		
USB	1x internal USB2.0 port		
Remote Ctrl. & Status Output	1x 2x6-pin 2.0mm pin-header connector for remote on/off control and status LED 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		
Mounting	Wall-mount (standard) or DIN-rail (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 55032		

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

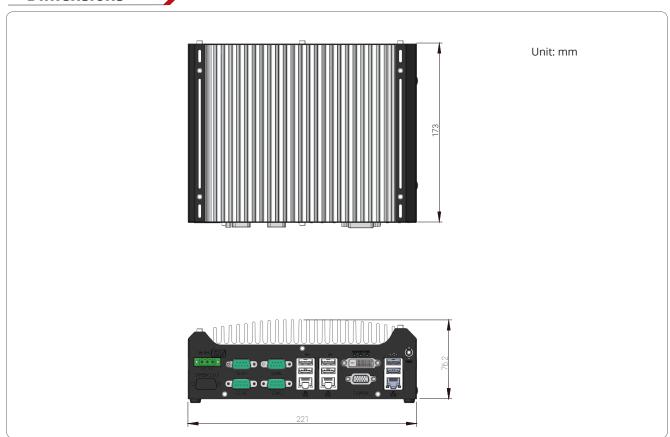
Neousys Technology \*\* For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.



#### **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 <sup>®</sup> 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.