

### reousys TECHNOLOGY

# Nuvo-5501 Series

Intel® 6th-Gen Core 17/ 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

# Introduction

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Nuvo-5501 series features compact fanless embedded controllers for the cost and space conscious. Based on Intel<sup>®</sup> 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<sup>®</sup> 6th-Gen Core<sup>™</sup> i to Celeron<sup>®</sup> 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.

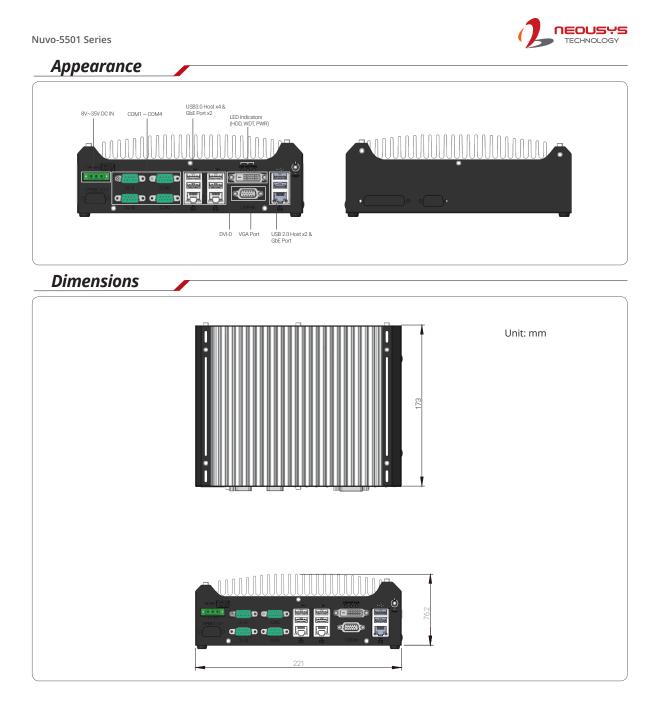
#### Specifications

System Core		Expansion Bus/ Internal I/O Interface	
	Supports following CPUs	mini-PCle	1x full-size mini PCI Express socket
Processor	- Intel <sup>®</sup> Core <sup>®</sup> 17-6700TE (8M Cache, 2.4/ 3.4 GHz, 35W TDP) - Intel <sup>®</sup> Core <sup>®</sup> 15-6500TE (6M Cache, 2.3' 3.3 GHz, 35W TDP) - Intel <sup>®</sup> Core <sup>®</sup> 13-6100TE (4M Cache, 2.7 GHz, 35W TDP) - Intel <sup>®</sup> Pentium <sup>®</sup> G4400TE (3M Cache, 2.4 GHz, 35W TDP) - Intel <sup>®</sup> Celeron <sup>®</sup> G3900TE (2M Cache, 2.3 GHz, 35W TDP)	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
Chipset	Intel <sup>®</sup> H110 platform controller hub	Power Supply	
Graphics	Integrated Intel <sup>®</sup> HD 530/ 510 controller		
Memory	Up to 16GB DDR4-2133 (single SO-DIMM slot)	DC Input	1x 3-pin pluggable terminal block for 8~35 VDC power input
I/O Interface	op to 1000 DDA4 2100 (Single SO Divini Siot)	— Mechanical	
1/O Interface		Dimension	221 mm (W) x 173 mm (D) x 76 mm (H)
Ethernet port	1x Gigabit Ethernet port (via Intel <sup>®</sup> I219-LM) 2x Gigabit Ethernet port (via Intel <sup>®</sup> I210-IT)	Weight	2.8 Kg (incl. CPU, memory and HDD)
	4x USB3.0 ports	Mounting	Wall-mount (standard) or DIN-rail mount (optional)
USB	2x USB2.0 ports	Environmenta	al
Video port	1x VGA connector 1x DVI-D connector	Operating Temperature	-25°C ~ 70°C */**
Serial Port	2x software-programmable RS-232/ 422/ 485 ports 2x RS-232 ports	Storage Temperature	-40°C ~ 85°C
Isolated DIO	8-CH isolated DI and 8-CH isolated DO (optional)	Humidity	10%~90% , non-condensing
Storage Interface			Operating, 5 Grms, 5-500 Hz, 3 Axes
SATA HDD	1x internal SATA port for 3.5" HDD or 2.5" HDD/ SSD	Vibration	(w/ SSD, according to IEC60068-2-64)
mSATA	1x full-size mSATA socket	Shock	Operating, 50 Grms, half-sine 11 ms duration (w/ SSD, according to IEC60068-2-27)

CE/ FCC Class A, according to EN 55022, EN 55024 & EN 55032 EMC \* The 100% CPU loading is applied using Passmark<sup>®</sup> 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.





### **Ordering Information**

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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.	

www.neousys-tech.com

ifications and photos are subject to change without prior notice



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## US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

## **EMEA**

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28 Business Registration Number: 07699660