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Nuvo-7531 Series

Intel® 9th/8th -Gen Core™ i7/ i5/ i3 Compact Fanless Computer with 4x GbE, 4x USB3.1 and 1X hot-swappable HDD tray



CE F©

Key Features

- · 212 x 165 x 63 mm low-profile design
- · Intel® 9th/ 8th-Gen Core™ 35W/ 65W LGA1151 CPU
- · Rugged, -25°C to 60°C fanless operation
- · 4x GbE and 4x USB3.1 Gen1 with screw-lock
- $\cdot\,$ 1x hot-swappable HDD tray and 1x M.2 2280 socket for storage
- · 4-CH isolated DI and 4-CH isolated DO
- · DVI-I + DP dual display outputs
- · Optional ignition power control

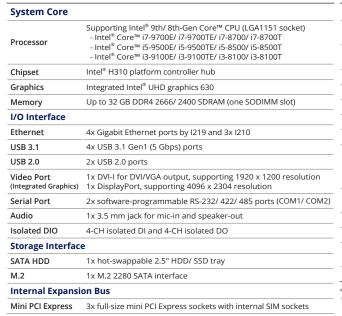
Introduction

Nuvo-7531 is one of the most compact fanless embedded controller supporting Intel® 9th/ 8th-Gen Core™ CPUs. Measuring just 212 x 165 x 63 mm, it comfortably fits into confined spaces. Despite its compact size, Nuvo-7531 does not compromise on performance. Based on Intel® 9th/ 8th-Gen Core™ 65W/ 35W CPUs, it can deliver more than 50% extra performance compared to the previous generation. Nuvo-7531 is a compact and powerful fanless embedded controller for a variety of industrial applications.

The Nuvo-7531 has abundant I/O functions. It features four GbE ports and four USB3.1 ports for multiple GbE and USB cameras. There is a hot-swappable HDD tray for you to hot-swap the storage drive without turning off the system or dismantle the chassis. There are three mPCle slots to install WIFI or 3G/ 4G for wireless communication needs. In addition, Nuvo-7531 is also equipped with 8x DIO, 2x COM ports and dual display outputs for your application needs.

For a compact embedded controller, Nuvo-7531 delivers amazing computing power and provides rich I/O functions. It is suitable for a variety of industrial applications, especially when space is limited. Nuvo-7531 is a little giant in the world of rugged embedded controllers.

Specifications



Power Supply	
DC Input	1x 3-pin pluggable terminal block for 8~35V DC input with optional ignition power control
Remote Ctrl. & LED Output	1x 10-pin (2x5) pin header for remote on/off control and status LED output
Mechanical	
Dimension	212 mm (W) x 165 mm (D) x 63 mm (H)
Weight	2.5 kg
Mounting	Wall-mount (standard) or DIN-rail mount (optional)
Environmental	
Operating Temperature	with 35W CPU -25° C ~ 60° C */** with 65W CPU, optional fan kit is required -25° C ~ 60° C */**
Storage Temperature	-40°C ~ 85°C
Humidity	10%~90%, non-condensing
Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4
Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II
EMC	CE/FCC Class A, according to EN 55032 & EN 55024

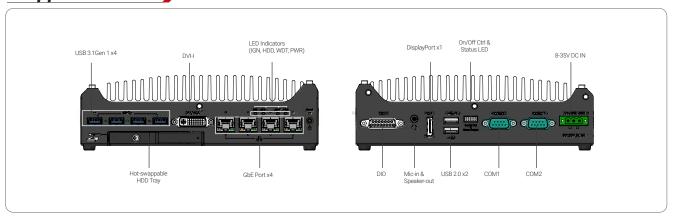
roi sub-zero operating temperature, a wide temperature HBB of Solid State Blsk (835) is required: *For i7 CPUs, thermal throttling may occur when sustained full-loading applied at 60°C ambient temperature

Backplane Systems Technology Backplane Systems Technology Pty Ltd

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Appearance



Dimensions



Ordering Information

Model No.	Product Description
Nuvo-7531	Intel® 9th/ 8th -Gen Core™ i7/ i5/ i3 compact fanless computer with 4x GbE , 4x USB 3.1 and a hot-swappable HDD tray
Optional ignition power con	trol

Optional Accessories

PA-120W-OW	120W AC/ DC power adapter 20V/ 6A; 18AWG/ 120cm; cord end terminals for terminal block, operating temperature: -30°C to 70 °C
DINRAIL-31	DIN-rail mount assembly for Nuvo-7531 series
Fan kit	Fan kit with 92mm x 92mm fan for Nuvo-7531 series