

# Nuvo-2822

Compact and powerful box PC with 2x PCIe and 2x PCI slots

## Features

- Intel® Alder Lake N97 processor
- DDR5 4800 SODIMM, up to 16GB
- 2x PCIe and 2x PCI slots
- Dual display support (HDMI & DP)
- Extremely low power consumption during shutdown



## Nuvo-2822: Powerful Box PC with versatile expansion options

The Nuvo-2822 is a compact box PC with expansion options, powered by an Intel® Alder Lake N processor. It offers two PCIe and two PCI slots that support various expansion cards such as frame grabbers, motion control cards, COM port expansion cards and data acquisition cards. This versatility makes the Nuvo-2822 an ideal choice for industrial applications where flexibility and performance are critical.

### Up to five times higher performance

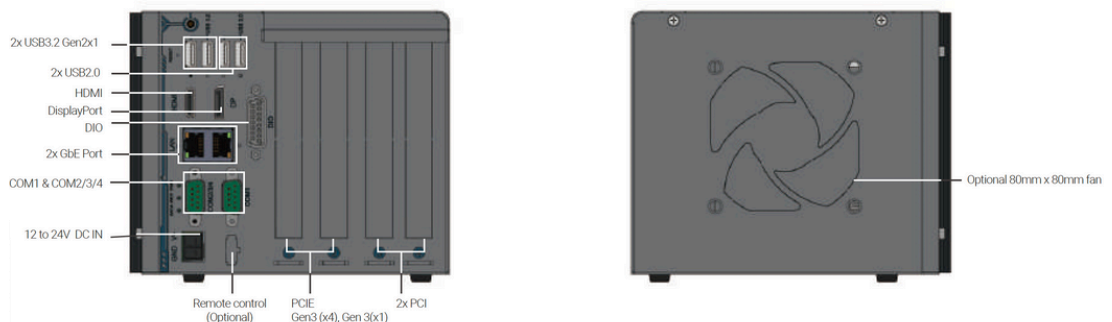
Compared to the previous Nuvo-2400 series, the Nuvo-2822 offers up to five times the performance. This enables it to efficiently process large amounts of data captured by extensive I/O interfaces in real time. With its two Ethernet ports equipped with I210 IT controllers and two USB 3.2 Gen 2 ports with screw lock, industrial cameras can be securely connected and fixed, making it perfect for machine vision applications. The Nuvo-2822 has eight isolated digital I/O channels and four COM ports to communicate with and control various industrial sensors, display devices, motors and actuators. This enables seamless integration into existing automation environments and provides the flexibility to connect and control a wide range of devices.

### Energy-efficient operation with Super Power Saving Mode

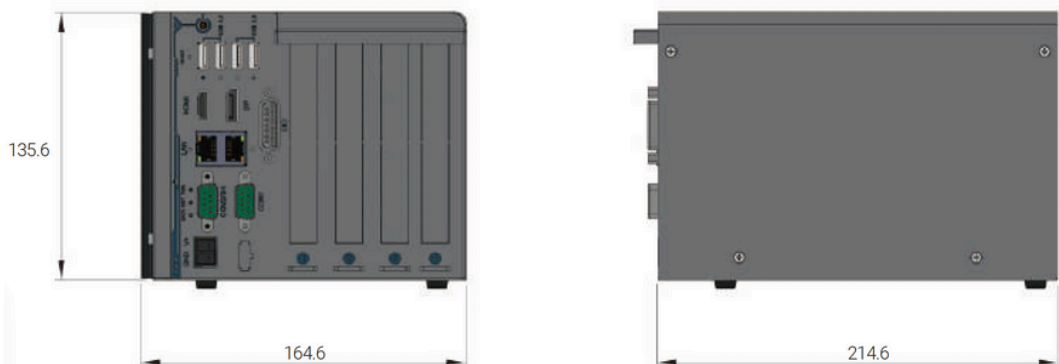
An outstanding feature of the Nuvo-2822 is its "Super Power Saving Mode", which significantly reduces energy consumption in standby mode (S4/S5). This helps to reduce operating costs and protects the environment by lowering power consumption when the system is not in active use.

Thanks to its compact dimensions, the Nuvo-2822 can be installed in confined spaces or small control cabinets. Despite its small size, it offers extensive connection and expansion options, making it the ideal solution for industrial control and automation applications. The support of versatile PCIe and PCI expansion cards enables the Nuvo-2822 to be adapted to special requirements and further expand its application possibilities.

## Appearance



## Dimensions (in mm)



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Specifications	Nuvo-2822
<b>SYSTEM</b>	
CPU	Intel® Alder Lake N97 processor (4C/4T, 2.0 /3.6 GHz, 12W TDP)
Graphics	Integrated Intel® UHD graphics with 24EUs
RAM	Up to 16 GB DDR5-4800 SDRAM (one SODIMM slot)
TPM	Supports dTPM 2.0
Storage	1x M.2 2280 M key socket for SATA SSD
Expansion	1x PCIe x4 slot @ Gen3, 4-lanes 1x PCIe x4 slot @ Gen3, 1-lanes 2x 33MHz/ 32-bit 5V PCI slots
<b>INTERFACE</b>	
Ethernet	2x Gb Ethernet from Intel I210-IT (1x with WoL)
USB	4x USB 3.2 Gen2 ports with screw lock 2x USB 2.0 ports with screw lock
COM	1x software-programmable RS-232/422/485 connections (COM1) 3x 3-wire RS-232 connections (COM2/3/4)
Digital I/O	4CH isolated DI and 4CH isolated DO
Video	1x DP+, supports the resolution 4096 x 2160 1x HDMI.1.4b, supports 3840 x 2160 30Hz
Power	1x 2-pin plug-in connection block 1x 10-pin (2x5) wafer connection for remote control and status LED output
<b>ENVIRONMENTAL</b>	
Cooling	Optional 80 x 80 mm fan for heat dissipation of the system
Power Supply	1x 2-pole plug-in terminal strip for 12 to 24V DC input
Operating Temperature	With fan kit: -10°C ~ 70°C [1]/[2] Without fan kit: -10°C ~ 60°C [1]
Storage Temperature	-40° ~ 85°C
Vibration / Shock Resistance	Vibration: MIL-STD-810H, Method 514.8, Category 4 Shock: MIL-STD-810H, Method 516.8, Procedure I
Humidity	10 ~ 90% , non-condensing
Dimensions	164.6 (W) x 214.6 (D) x 135.6 mm (H)
Weight	2.3 kg
Mounting	Wall-mount (optional)
Certifications	CE/FCC Class A, according to EN 55032 & EN 55035

[1] For operating temperatures below freezing and above 60 °C, a solid state disk (SSD) is required for a wide temperature range.

[2] The optional fan kit is recommended for operation at ambient temperatures above 60 °C.

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Ordering Information	Product Description
Nuvo-2822	Intel® Alder Lake N97 Compact Expansion Box-PC with 2x PCIe and 2x PCI slots

Optional Accessories	
PA-160W-OW	160W AC/DC power adapter 20V/ 8A; 18AWGx4C/ 120cm; cord end terminals for terminal block, operating temperature : -30°C to 70 °C
PA-280W-ET2	280W AC/DC power adapter 24V/ 11.67A ; 16AWG/ 100cm; cord end terminals for terminal block, operating temperature : -30°C to 60°C
Wmkit-Nuvo2822	Wall mounting assembly for Nuvo-2822
AccsyBx-FAN-Nuvo-2822	Fan assembly for Nuvo-2822 series, 80x80x15 mm
Cbl-W212F-W210F-23CM	Cable Wafer 2.0 Female 12P to 10P, Length: 23cm