

Rugged Embedded



Nuvo-2400 Series

Intel® Celeron® Bay Trail fanless Shoebox IPC with Dual Display Output, Dual GbE and Triple PCI/PCIe slots



CE FC

Key Features

- Intel® Celeron® Bay Trail J1900 quad-core processor
- 3x PCI slots or 1x PCIe x4 + 2x PCI slots
- Rugged, -25°C to 70°C fanless operation
- Dual independent display via DVI-I
- 2x SATA ports for 2.5" HDD/ SSD
- 2x RS-232/ 422/ 485 and 2x RS-232
- Optional isolated 8-ch DI and 8-ch DO
- 8 to 25V DC wide-range input

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Introduction

Nuvo-2400 series are fanless shoebox IPCs with 3 PCI or 2 PCI + 1 PCIe expansion slots. The expansion slots are provided for add-on cards, such as COM port cards and frame grabbers. Nuvo-2430 provides 3 PCI slots, while Nuvo-2421 provides one PCIe x4 slot with and two PCI slots (1-lane PCI Express 2.0 signal).

Nuvo-2400 series facilitate the integration of both remote on/ off switch and the system status indicators with corresponding signals reserved for buttons and LEDs outside of Nuvo-2400 so users can power on/ off Nuvo-2400 externally. Furthermore, there are optional 24V DC rated and isolated 8-channel digital inputs/ 8-channel digital outputs. This makes Nuvo-2400's DI/O compatible with many industrial sensors, indicators, coils and actuators.

Powered by Intel® Celeron® Bay Trail J1900 series quad-core processor, Nuvo-2400 series show outstanding computing power and is even more power efficient compared to its predecessors. Nuvo-2400 supports dual independent displays, dual 2.5" SATA bays and dual gigabit LAN ports with teaming and PXE. These features, together with 3 expansion slots, maximize the flexibility of Nuvo-2400 for various applications.

Specifications

| System Core | | Expansion Bus | |
|--------------------------------|--|------------------------------|--|
| Processor | Intel® Celeron® Bay Trail J1900 quad-core processor (2.42GHz, 2M cache) | PCI | 3x PCI Slot with 33MHz, 32-bit PCI signal (Nuvo-2430) 2x PCI Slot with 33MHz, 32-bit PCI signal (Nuvo-2421) |
| Graphics | Integrated Intel® HD graphics | PCI Express (Nuvo-2421 only) | 1x PCI Express x4 slot with 1-lane Gen2 PCI Express signal |
| Memory | Up to 8GB DDR3L-1333MHz SDRAM (single SODIMM slot) | Power Supply | |
| Front Panel I/O Interface | | DC Input | 8-25V DC |
| Ethernet | 2x Gigabit Ethernet by Intel® Ethernet controller I210 | Mechanical | |
| Video Port | 1x DVI-I for VGA and DVI dual independent display support | Dimension | 139 mm (W) x 225 mm (D) x 160 mm (H) |
| Serial Port | 2x BIOS-configurable RS-232/ 422/ 485 (COM1 & COM2) | Weight | 2.2 kg |
| USB 3.1 | 1x USB 3.1 Gen1 (5 Gbps) ports | Mounting | Wall-mount (standard) or DIN-rail mount (optional) |
| USB 2.0 | 3x USB 2.0 ports | Environmental | |
| Audio | 1x Mic-in and 1x speaker-out | Operating Temperature | -25°C ~ 70°C, 100% CPU loading */** |
| Internal I/O Interface | | Storage Temperature | -40°C ~ 85°C |
| Serial Port | 2x RS-232 (COM3 & COM4) | Humidity | 10%~90% , non-condensing |
| Parallel Port | 1x parallel port | Vibration | Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) |
| Isolated DIO | Optional 8-CH DI and 8-CH DO (polling mode only) | Shock | Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27) |
| Remote Control & Status Output | 1x 3-pin 2.0mm wafer connector for remote on/ off control 1x 2x6-pin 2.0mm pin-header connector for status output | EMC | CE/FCC Class A, according to EN 55022, EN 55024 |
| Storage Interface | | | |
| SATA HDD | 2x internal SATA ports for 2.5" HDD/ SSD installation | | |

* The 100% CPU loading is applied using Passmark® BurnInTest™ v7.0. For detail testing criteria, please contact Neusys Technology
** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.

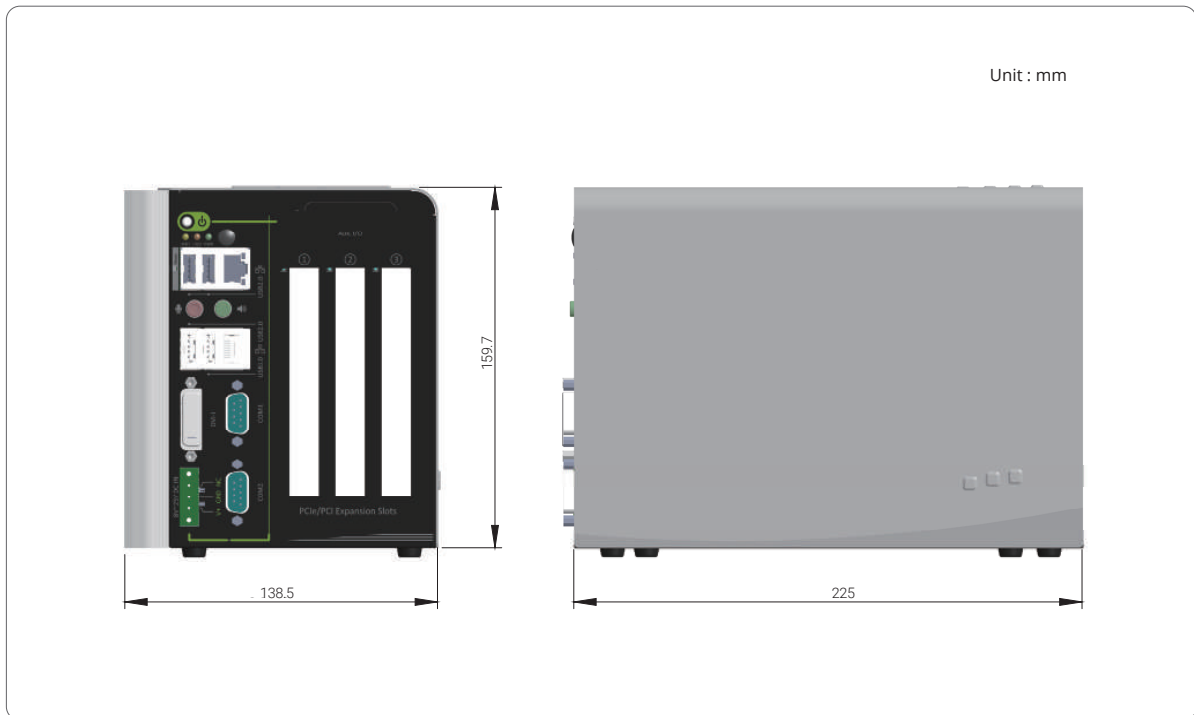
Nuvo-2400 Series



Appearance



Dimensions



Ordering Information

| Model No. | Product Description |
|--|--|
| Nuvo-2430 | Intel® Bay Trail Celeron® J1900 fanless shoe-box IPC with dual display, dual GbE and 3x PCI slots |
| Nuvo-2421 | Intel® Bay Trail Celeron® J1900 fanless shoe-box IPC with dual display, dual GbE , 2x PCI slots and one PCIe x4 slot |
| <i>Optional isolated DIO (8 DI + 8 DO)</i> | |

Optional Accessories

| | |
|---|---|
| <i>Panel/ cable kit for 2x COM ports</i> | |
| <i>Panel/ cable kit for 1x COM + 1x LPT ports</i> | |
| Fankit-80 | Fan assembly for Nuvo-2400 series, 80x80x15 mm |
| DINRAIL-E | DIN-rail mount assembly for Nuvo-2400 series |
| PA-60W-OW | 60W AC/DC power adapter with 12V, 5A DC output, cord end terminals for terminal block. operating temperature : -30 to 60 °C |

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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