

Nuvo-2400 Series

Intel® Celeron® Bay Trail fanless shoe-box IPC with dual display, 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 connector
- 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 25 VDC wide-range DC input

Introduction

Nuvo-2400 is a fanless shoe-box IPC with 3 PCI/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 1-lane PCI Express 2.0 signal and two PCI slots. A convenient design of Nuvo-2400 facilitates the integration of both remote on/off switch and the system status indicators. Corresponding signals are reserved for buttons and LEDs outside of Nuvo-2400. And users can power on/off Nuvo-2400 externally. Furthermore, 8-channel digital input and 8-channel digital outputs are provided as an option of Nuvo-2400. All inputs and outputs are isolated and 24VDC-rated. This makes the DI/O compatible with many industrial sensors, indicators, coils and actuators.

Powered by Intel® Celeron® Bay Trail J1900 quad-core processor, Nuvo-2400 shows outstanding computing power and is even more power efficient compared to those with 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 the 3 expansion slots, maximize the flexibility of Nuvo-2400 for even more generic applications.

Specifications

System Core		Expansion Bus	
Processor	Intel® Celeron® Bay Trail J1900 Quad-core Processor (2.42GHz, 2MCache)	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	1x 204-pin SO-DIMM Socket, up to 8GB DDR3L-1333MHz SDRAM	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 connector for VGA and DVI dual independent display outputs	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 (incl. CPU, memory and HDD)
USB	1x USB3.0 and 3x USB2.0	Mounting	Wall-mount (Standard) or DIN-rail mount (Optional)
Audio	1x Mic-in and 1x Speaker-out	Environmental	
Internal I/O Interface		Operating Temperature	-25°C ~ 70°C, 100% CPU loading */**
Serial Port	2x RS-232 (COM3 & COM4)	Storage Temperature	-40°C ~ 85°C
Parallel Port	1x Parallel Port	Humidity	10%~90% , non-condensing
Isolated DIO	Optional 8-CH DI and 8-CH DO (Polling Mode Only)	Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, w/o add-on card, according to IEC60068-2-64)
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	Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, w/o add-on card, according to IEC60068-2-27)
Storage Interface		EMC	CE/FCC Class A, according to EN 55022 & EN 55024
SATA HDD	2x internal SATA ports for 2.5" HDD/SSD installation		

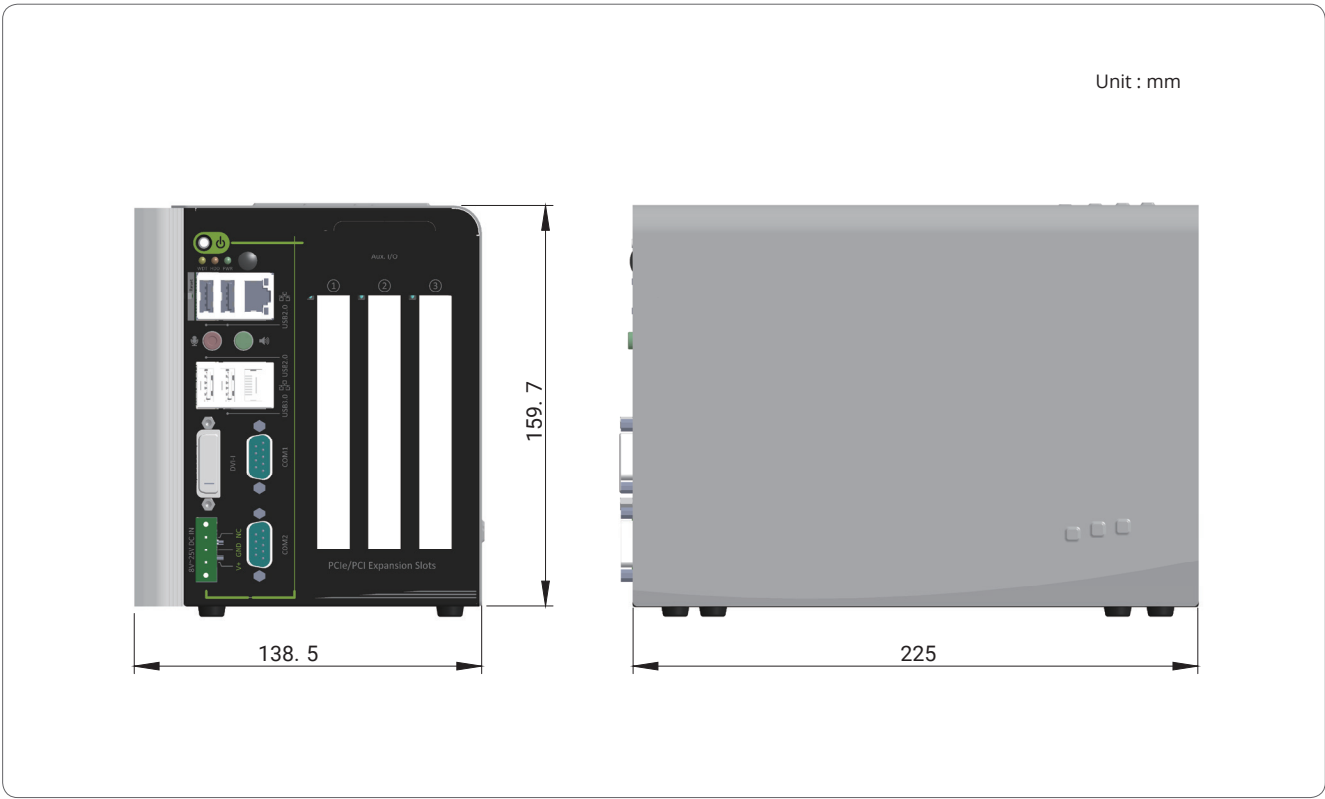
* The 100% CPU loading is applied using Passmark® BurnInTest™ v7.0. For detail testing criteria, please contact Neousys Technology

** 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-2430	Intel® Celeron® Bay Trail J1900 fanless shoe-box IPC with dual display, dual GbE and triple PCI Slots
Nuvo-2421	Intel® Celeron® Bay Trail J1900 fanless shoe-box IPC with dual display, dual GbE and dual PCI and one PClex4 slot
Option of isolated DIO for Nuvo-2400	

Optional Accessories

Panel/cable kit for 2x COM ports
Panel/cable kit for 1x COM + 1x LPT ports
DIN-rail mounting clip for Nuvo-2400
60W AD/DC power adapter 12V/5A