

Rugged Embedded



Nuvo-2600 Series

Intel® Elkhart Lake Atom® x6425E Fanless Box-PC with 4x PoE+, 7/15mm 2.5" HDD and PCIe Expansion Cassette



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Key Features

- Intel® Elkhart Lake Atom® x6425E quad-core 2.0GHz/ 3.0GHz 12W processor
- Rugged -25°C to 70°C fanless operation
- 4x Gigabit PoE+ ports via RJ-45 connector with screw-lock
- 1x isolated RS-485 port and 1x RS-422/485 or 3x 3-wire RS-232 ports
- 2x full-size mini-PCIe sockets and 1x M.2 3042/3052 B key
- 1x front-accessible 2.5" SATA SSD tray (up to 15mm height) and 1x M.2 2280 SATA
- 1x patented Cassette for single-slot PCIe card (Nuvo-2600E), or 1x 2500 watt-second SuperCAP UPS (Nuvo-2600J)
- 8V to 35V wide-range DC input with remote control and optional ignition power control

Introduction

The Nuvo-2600 series is an Intel® Elkhart Lake Atom® fanless box-PC with flexible expansions to fulfill versatile factory automation and machine vision applications that require a compact footprint, Gigabit PoE+ capability, and front-accessible data storage with CPU performance at 12W of low power consumption.

Powered by Intel® Elkhart Lake Atom® x6425E quad-core CPU, the Nuvo-2600 series delivers 320% CPU performance improvement compared with our previous Nuvo-2500E series. The Nuvo-2600 series has four Gigabit PoE+ and one USB 3.1 port with screw-lock mechanisms to secure camera connections. In addition to its internal M.2 2280 SATA SSD for system storage, Nuvo-2600 has one front-accessible 2.5" HDD tray accommodating a 7-15mm 2.5" SSD/HDD up to 5TB in storage capacity. It also has one isolated RS-485 port and isolated DIO to provide robust connections with industrial devices. For internal expansion, the Nuvo-2600 series provides two mini-PCIe sockets and one M.2 3042/3052 B Key socket to support 4G/5G mobile broadband.

To meet diverse deployment requirements, the Nuvo-2600 series comes in two variants. The Nuvo-2600E has a PCIe Cassette for an additional PCIe card, e.g., USB or GbE frame grabber, isolated DIO, or industrial communication card. While Nuvo-2600J has an integrated SuperCAP UPS that can withstand power interruption or voltage fluctuation in industrial environments. Featuring Intel Elhart Lake Atom® quad-core CPU, wide temperature operation, industrial I/O interfaces, and expansion Cassette module, Nuvo-2600 series is the perfect, multi-purpose fanless box-PC for factory automation and machine vision applications.

Specifications

System Core

Processor	Intel® Elkhart Lake Atom® x6425E quad-core 2.0GHz/3.0GHz 12W processor
Graphics	Integrated Intel® UHD Graphics
Memory	Up to 32 GB DDR4-3200 SDRAM by one SODIMM socket

Panel I/O Interface

Ethernet port	4x Gigabit Ethernet ports via RJ-45 connectors with screw-lock
PoE Capability	In compliant with IEEE 802.3at PoE+ PSE, maximal 25.5W output on single PoE+ port. Compatible with 802.3at (PoE+) and 802.3af (PoE) PD
Video Port	VGA and DVI dual display outputs via DVI-I connector
USB 3.1	1x USB 3.1 Gen1 (5 Gbps) ports with screw-lock
USB 2.0	2x USB 2.0 port with screw-lock
Serial Port	1x isolated RS-485 port with 15 kV ESD protection (COM1) 3x 3-wire RS-232 ports (COM2/3/4) or 1x RS-422/485 (COM2)
Audio	1x 3.5 mm jack for mic-in and speaker-out
Isolated DIO	4-CH isolated DI and 4-CH isolated DO

Internal I/O Interface

PCIe	1x PCIe x4 slot @ 2-lane PCIe 3.0 signal in Cassette (Nuvo-2600E only)
Mini-PCIe	1x full-size mini PCI Express socket with PCIe and USB 2.0 signal 1x full-size mini PCI Express socket with USB 2.0 signal
M.2 B key	1x M.2 3042/3052 B key (USB 3.1 + USB 2.0) for 4G/5G module with dual internal micro SIM socket

Storage Interface

M.2 SATA	1x M.2 2280 M key (SATA interface only) socket for SATA SSD installation
SATA HDD	1x front-accessible HDD tray for 2.5" HDD/ SSD installation (up to 15mm height)

Power Supply

DC Input	1x 3-pin pluggable terminal block for 8V to 35V DC input with optional ignition power control
Remote Ctrl. & LED Output	1x 3-pin pluggable terminal block for remote control and PWR LED output

Power Backup

Capacity	2500 watt-second (Nuvo-2600J only)
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Mechanical

Dimension	205 mm (W) x 154.7 mm (D) x 85.6 mm (H)
Weight	2.3 kg (Nuvo-2600E) 2.5 kg (Nuvo-2600J)
Mounting	Wall-mount bracket (optional)

Environmental

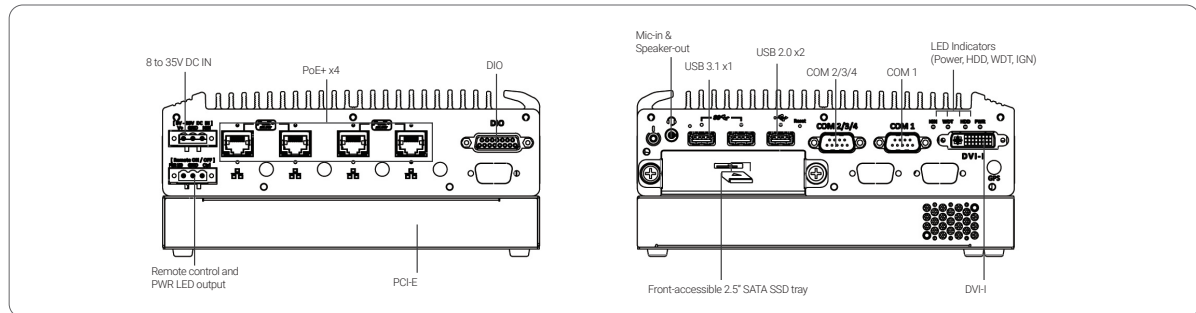
Operating Temperature	-25°C ~ 70°C*
Storage Temperature	-40°C ~ 85°C
Humidity	10%~90% , non-condensing
Vibration	Operating, MIL-STD-810G, Method 514.7, Category 4
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
EMC	CE/FCC Class A, according to EN 55032 & EN 55035

** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.

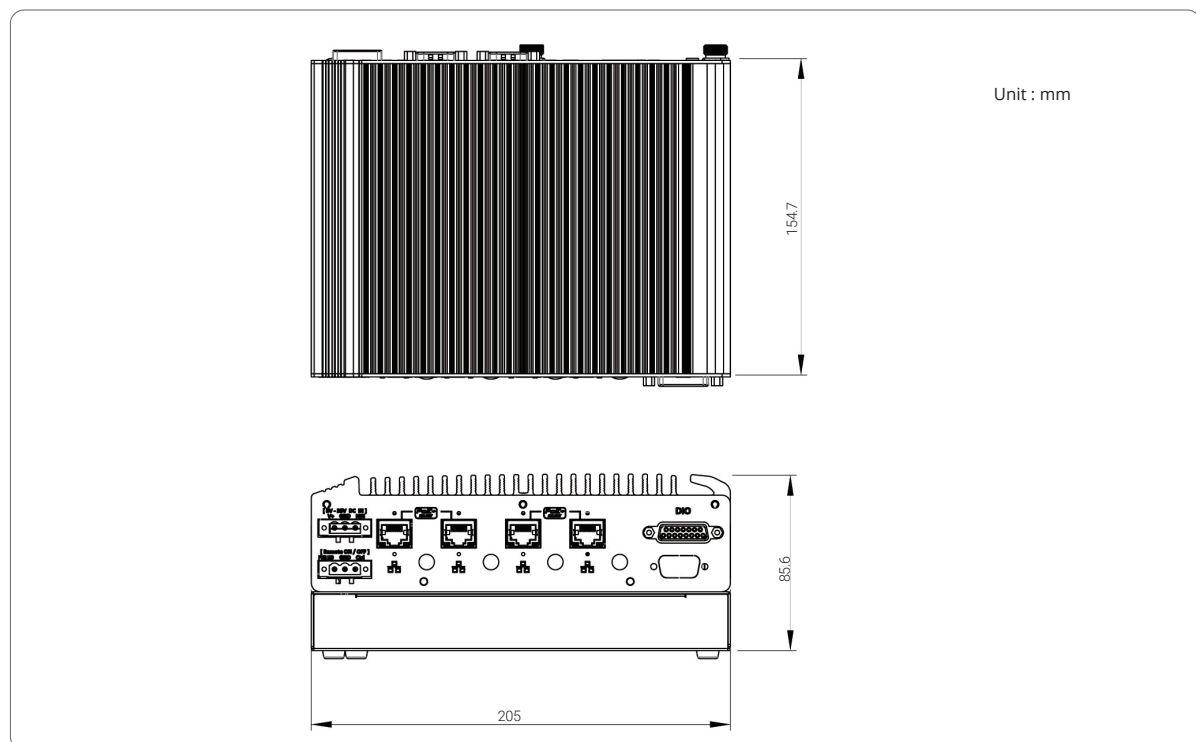
Nuvo-2600 Series



Appearance



Dimensions



Ordering Information

Model No.	Product Description
Nuvo-2600E	Intel® Elkhart Lake Atom® x6425E fanless box PC with 4x GbE, 7/15mm 2.5" HDD and PCIe expansion Cassette
Nuvo-2600E-PoE	Intel® Elkhart Lake Atom® x6425E fanless box PC with 4x PoE+ GbE, 7/15mm 2.5" HDD and PCIe expansion Cassette
Nuvo-2600E-IGN	Intel® Elkhart Lake Atom® x6425E fanless box PC with 4x GbE, 7/15mm 2.5" HDD and PCIe expansion Cassette and ignition power control
Nuvo-2600E-PoE-IGN	Intel® Elkhart Lake Atom® x6425E fanless box PC with 4x PoE+ GbE, 7/15mm 2.5" HDD and PCIe expansion Cassette and ignition power control
Nuvo-2600J	Intel® Elkhart Lake Atom® x6425E fanless box PC with 4x GbE, 7/15mm 2.5" HDD and SuperCAP UPS
Nuvo-2600J-PoE	Intel® Elkhart Lake Atom® x6425E fanless box PC with 4x PoE+ GbE, 7/15mm 2.5" HDD and SuperCAP UPS
Nuvo-2600J-IGN	Intel® Elkhart Lake Atom® x6425E fanless box PC with 4x GbE, 7/15mm 2.5" HDD and SuperCAP UPS and ignition power control
Nuvo-2600J-PoE-IGN	Intel® Elkhart Lake Atom® x6425E fanless box PC with 4x PoE+ GbE, 7/15mm 2.5" HDD and SuperCAP UPS and ignition power control

Optional Accessories

PA-120W-OW	120W AC/DC power adapter 20V/6A; 18AWG/120cm; cord end terminals for terminal block, operating temperature: -25 to 70°C.
PA-160W-OW	160W AC-DC power adapter 20V/8A; 18AWG/120cm; cord end terminals for terminal block, operating temperature: -25 to 70°C.
Wmkit-Nuvo-2600	Wall mounting kit for Nuvo-2600 and Nuvo-2610VTC series, including wall mounting brackets and screws
AccsyBx-FAN-Nuvo-2600E	Single fan kit for the PCIe cassette of Nuvo-2600 and Nuvo-2610VTC series, including one 25x25mm fan and screws

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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