Nuvo-2600 Series

Fanless Box PC with Intel® Elkhart Lake Atom® CPU and flexible expansion options

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Features

- Intel® Elkhart Lake Atom® x6425E CPU
- DDR4 3,200 SDRAM SODIMM up to 32GB
- 4x Gigabit PoE+ ports
- 1x Patented cassette for single slot PCIe card (Nuvo-2600E)
- 1x SuperCAP UPS (Nuvo-2600J)

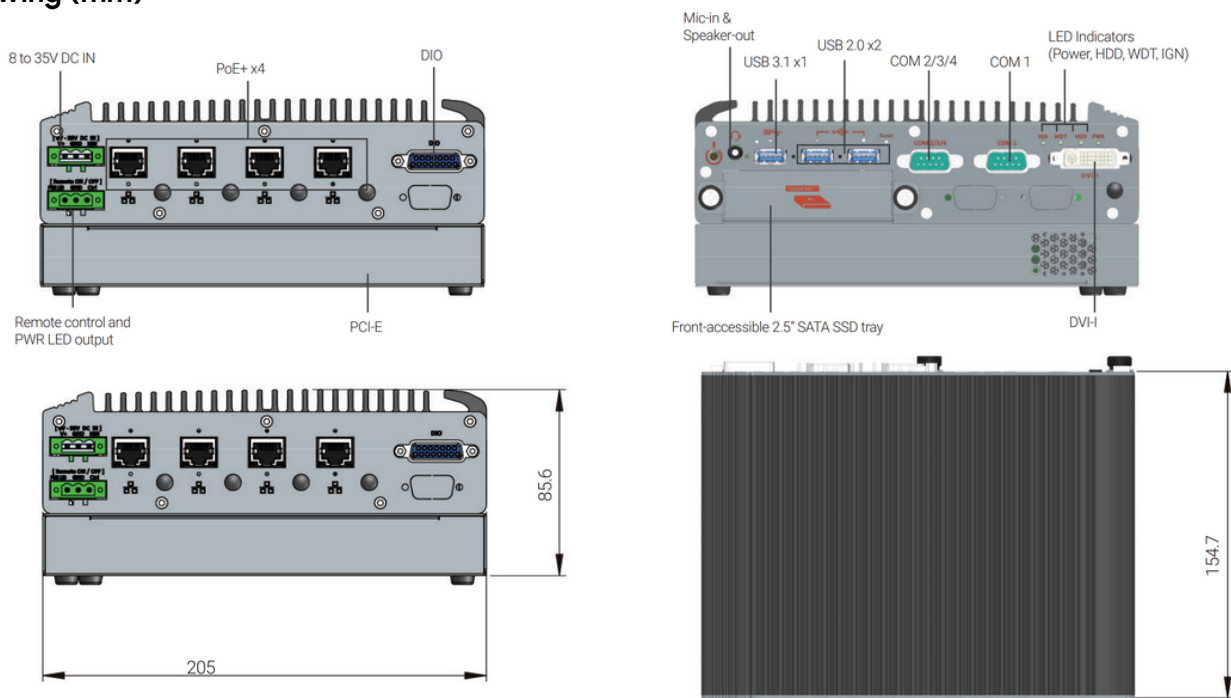## Nuvo-2600 series – Fanless Box PC for factory automation

The Nuvo-2600 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.

High computing power with a wide range of expansion options

Powered by Intel® Elkhart Lake Atom® x6425E quad-core CPU, the Nuvo-2600 series delivers 320% CPU performance improvement compared with the previous Nuvo-2500E series. The Nuvo-2600 series has four Gigabit PoE+ and one USB 3.1 ports 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.

Drawing (mm)

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Specifications	Nuvo-2600 series
SYSTEM	
CPU	Intel® Elkhart Lake Atom® x6425E Quad-Core-CPU with 2.0 GHz / 3.0 GHz and 12W
Graphics	Integrated Intel® UHD Graphics
RAM	Up to 32GB DDR4 3,200 SDRAM by one SODIMM socket
Storage	1x M.2 2280 M key (SATA interface only) socket for SATA SSD installation 1x front-accessible HDD tray for 2.5" HDD/ SSD installation (up to 15mm height)
Expansion	1x PCIe x4 slot @ 2-lane PCIe 3.0 signal in Cassette module (Nuvo-2600E only) 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 1x M.2 3042/3052 B key (USB 3.1 + USB 2.0) for 4G/ 5G module with dual internal micro SIM sockets 1x SuperCAP UPS (Nuvo-2600J only)
INTERFACE	
Ethernet	4x Gigabit Ethernet ports via RJ-45 connectors by Intel® I210 with screw-lock In compliant with IEEE 802.3at PoE+ PSE, maximum 25.5W output on single PoE+ port. Compatible with 802.3at (PoE+) and 802.3af (PoE) PD
USB	1x USB 3.2 Gen1 (5 Gbps) ports with screw-lock 2x USB 2.0 port with screw-lock
COM	COM 1: 1x isolated RS-485 port with 15 kV ESD protection COM 2/3/4: 3x 3-wire RS-232 ports or COM 2: 1x RS-422/485
Digital I/O	4-CH isolated DI and 4-CH isolated DO
Video	VGA and DVI dual display outputs via one DVI-I connector
Audio	1x 3.5 mm jack for mic-in and speaker-out
Power	1x 3-pin pluggable terminal block
ENVIRONMENTAL	
Cooling	Fanless
Power Supply	1x 3-pin pluggable terminal block for 8V to 35V DC input with built-in ignition power control (IGN/GND/V+)
Remote Control & LED	1x 3-pin pluggable terminal block for remote control and PWR LED output
Operating Temperature	-25° ~ 70°C *
Storage Temperature	-40° ~ 85°C
Vibration / Shock Resistance	Vibration: MIL-STD-810G, Method 514.7, Category 4 Shock: MIL-STD-810G, Method 516.7, Procedure I
Humidity	10 ~ 90% , non-condensing
Dimensions	205 (W) x 154.7 (D) x 85.6 (H) mm
Weight	2.3kg (Nuvo-2600E) 2.5kg (Nuvo-2600J)
Mounting	Wallmount (optional)
Certifications	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.

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Ordering Information

Model No.	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
Fankit-25	Single fan kit for the PCIe cassette of Nuvo-2600 and Nuvo-2610VTC series, including one 25x25mm fan and screws
Wmkit-Nuvo-2600	Wall mounting kit for Nuvo-2600 and Nuvo-2610VTC series, including wall mount brackets and screws