

Nuvo-5026E Series

Intel® 6th-Gen Core™ i7/ i5/ i3 Fanless Controller with Dual PCIe Slot Expansion Cassette, 6x GbE and MeziO™ Interface



CE FC

Key Features

- Intel® 6th-Gen Core™ i7/ i5/ i3 LGA1151 35W/ 65W
- Dual PCIe x8 slots in patented expansion Cassette*
- MeziO™ interface for easy function expansion
- Rugged, -25°C to 70°C fanless operation
- 6x GbE ports, supporting 9.5 KB jumbo frame
- Up to 32 GB, DDR4-2133 SO-DIMM
- Accommodates two 2.5" SATA HDD/ SSD with RAID 0/1 support
- VGA/ DVI/ DP triple independent display, supporting 4K2K resolution

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*R.O.C Patent No. M456527

Introduction

Nuvo-5026E is a member of the Nuvo-5000 family with dual PCIe slots. The dual PCIe slots enhance expansion abilities while preserving all practical features such as ruggedness, performance and versatility. The expandability makes Nuvo-5026E more adaptable to various application needs while the two PCIe slots in the patented expansion Cassette are easy to access for PCIe card installation without the need to disassemble the system.

Nuvo-5026E supports LGA1151 6th-Gen Core™ processors. It offers processor selection flexibility from Core™ i7 to Celeron according to performance needs and operating environment. It also offers plenty of I/O functions such as 6x GbE, 4x USB3.0, 3x COM ports and triple independent display support. In addition, Neosys' MeziO™ interface can also further expand system I/Os offering up to either 11x COM ports, 10x GbE, 8x USB3.0, 32x DIO or ignition power control by installing an optional MeziO™ module.

Nuvo-5026E is an expandable and flexible platform with numerous I/O functions for various industrial applications.

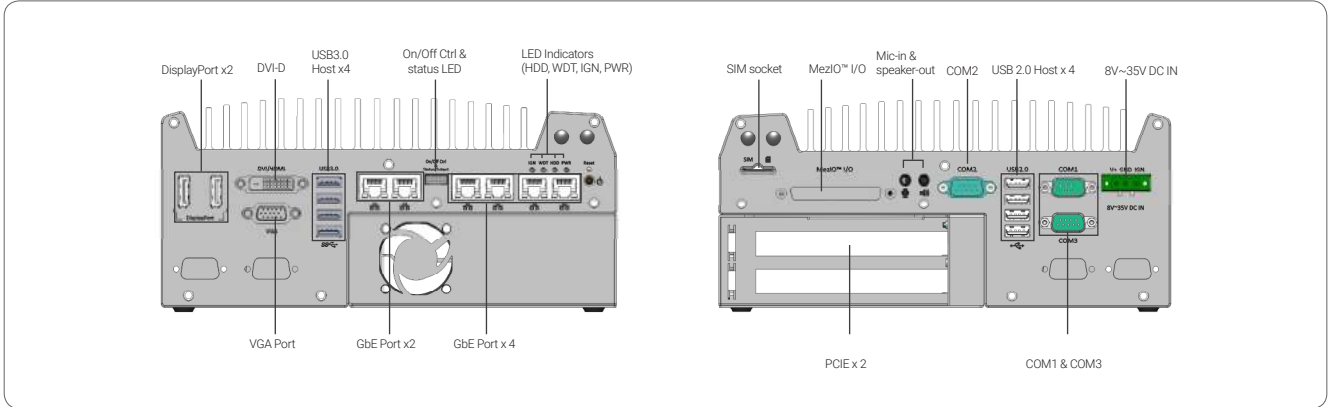
Specifications

System Core		Expansion Bus	
Processor	Intel® Core™ i7-6700 (8M Cache, 3.4/ 4.0 GHz, 65W TDP)*	PCI/PCI Express	2x PCIe x8 slot @ Gen3, 4-lanes PCIe signals in expansion Cassette
	Intel® Core™ i5-6500 (6M Cache, 3.2/ 3.6 GHz, 65W TDP)*	Mini PCI-E	1x internal mini PCI Express socket with front-accessible SIM socket 1x internal mini PCI Express socket with internal SIM socket (mux with mSATA)
	Intel® Core™ i3-6100 (3M Cache, 3.7 GHz, 51W TDP)*	Expandable I/O	1x MeziO™ expansion port for Neosys' MeziO™ modules
	Intel® Pentium® G4400 (3M Cache, 3.3 GHz, 54W TDP)*	Power Supply	
	Intel® Celeron® G3900 (2M Cache, 2.8 GHz, 51W TDP)*	DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input
	Intel® Core™ i7-6700TE (8M Cache, 2.4/ 3.4 GHz, 35W TDP)	Remote Ctrl. & Status Output	1x 10-pin (2x5) wafer connector for remote on/off control and status LED output
	Intel® Core™ i5-6500TE (6M Cache, 2.3/ 3.3 GHz, 35W TDP)	Mechanical	
	Intel® Core™ i3-6100TE (4M Cache, 2.7 GHz, 35W TDP)	Dimension	240 mm (W) x 225 mm (D) x 111 mm (H)
	Intel® Pentium® G4400TE (3M Cache, 2.4 GHz, 35W TDP)	Weight	3.7 kg
Intel® Celeron® G3900TE (2M Cache, 2.3 GHz, 35W TDP)	Mounting	Wall-mount (standard) or DIN-rail (optional)	
Chipset	Intel® Q170 platform controller hub	Environmental	
Graphics	Integrated Intel® HD graphics 530 or 510 (CPU dependent)	Operating Temperature	-25°C ~ 70°C **
Memory	Up to 32 GB DDR4-2133 SDRAM (two SO-DIMM slots)		i7-6700TE (35W TDP) i5-6500TE (35W TDP) i3-6100TE (35W TDP) Pentium G4400TE (35W TDP)
AMT	Supports AMT 11.0		-25°C ~ 70°C */** (configured as 35W CPU mode) -25°C ~ 50°C */** (configured as 65W/ 51W CPU mode)
TPM	Supports TPM 2.0	Storage Temperature	-40°C ~ 85°C
I/O Interface		Humidity	10%~90%, non-condensing
Ethernet	6x Gigabit Ethernet ports by Intel® I219 and 5x I210	Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
PoE+	Optional IEEE 802.3at PoE+ PSE for GbE Port 3 ~ Port 6, 80 W total power budget	Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
USB	4x USB3.0 ports via native xHCI controller 4x USB 2.0 ports	EMC	CE/ FCC Class A, according to EN55024 & EN55032
Video Port	1x stacked VGA + DVI-D connector 2x DisplayPort connectors, supporting 4K2K resolution		
Serial Port	2x software-programmable RS-232/ 422/ 485 port (COM1 & COM3) 1x RS-232 port (COM2)		
Audio	1x Mic-in and 1x Speaker-out		
Storage Interface			
SATA HDD	2x internal SATA port for 2.5" HDD/ SSD installation, supporting RAID 0/ 1		
mSATA	1x full-size mSATA port (mux with mini-PCIe)		

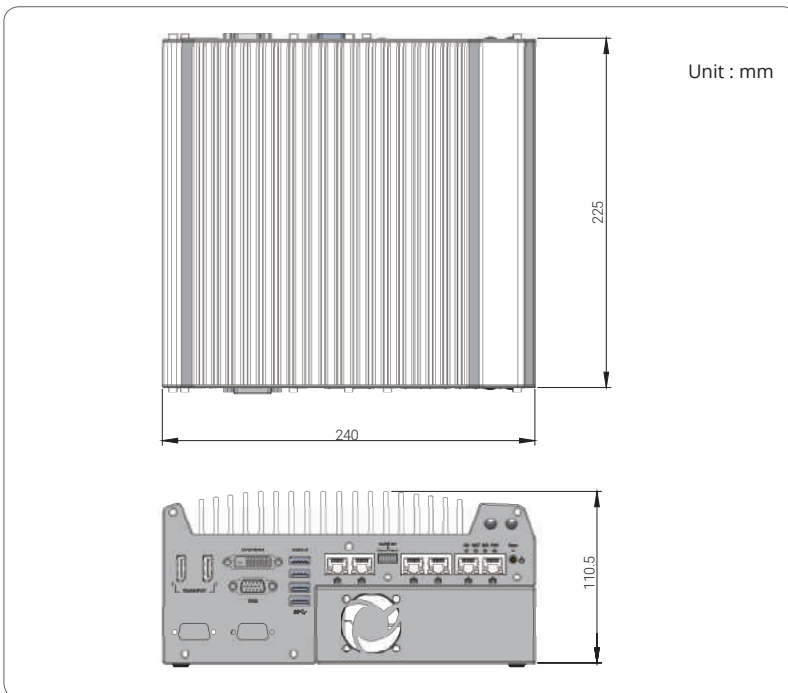
* For i7-6700 running at 65W mode, the highest operating temperature shall be limited to 50°C and thermal throttling may occur when sustained full-loading applied. Users can configure CPU power in BIOS to obtain higher operating temperature.

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

Appearance



Dimensions



▲ Nuvo-5026E



Dual PCIe Cassette

Ordering Information

Model No.	Product Description
Nuvo-5026E	Intel® 6th-Gen Core™ fanless controller with dual PCIe Cassette, 6x GbE and MeziO™ interface
	Optional IEEE 802.3at PoE+ for GbE ports 3 ~ 6

Optional Accessories

PA-160W-OW	160W AC/DC power adapter 20V/8A;18AWGx4C/120cm, cord end terminals for terminal block. operating temperature: -30 to 70 °C.
DINRAIL-O	DIN-rail mounting assembly for Nuvo-5026E series
Dmpbr-Nuvo5000_7000	Neosys' patented damping bracket assembly for Nuvo-7000E/DE/P
ETHY-100-2008S	Ethernet I/O expansion module with 8 isolated digital inputs and outputs
ETHY-100-2604S	Ethernet I/O expansion module with 8 isolated digital inputs and 4 relays outputs (coming soon)
MeziO™ Modules	
MeziO™-C180	MeziO™ module with 4x RS-232/422/485 ports and 4x RS-232 ports
MeziO™-C181	MeziO™ module with 4x RS-232/422/485 ports and 4x RS-422/485 ports
MeziO™-D220	MeziO™ module with 8-CH isolated digital input and 8-CH isolated digital output
MeziO™-D230	MeziO™ module with 16-CH isolated digital input and 16-CH isolated digital output
MeziO™-V20-EP	MeziO™ module with ignition power control function for in-vehicle usage
MeziO™-G4P	MeziO™ module with 4x Gigabit 802.3at PoE+ ports
MeziO™-G4	MeziO™ module with 4x Gigabit Ethernet ports
MeziO™-U4	MeziO™ module with 4x USB3.0

Only Nuvo-5026E-PoE supports MeziO-G4P