

# **Nuvo-5026E Series**

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



#### 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

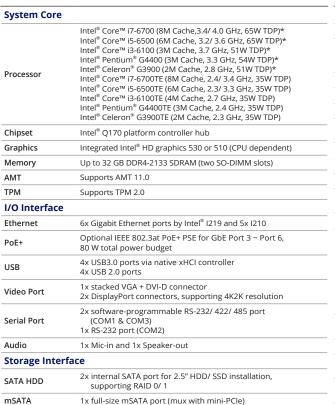
#### Introduction

Nuvo-5026E is the latest Nuvo-5000 family member with dual PCle slots. The dual PCle 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 PCle slots in the patented expansion Cassette are easy to access for PCle card installation without the need to disassemble the system.

Nuvo-5026E supports LGA1151 6th-Gen Core<sup>™</sup> processors. It offers processor selection flexibility from Core<sup>™</sup> 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, Neousys' MezIO<sup>™</sup> 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<sup>™</sup> module.

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

## **Specifications**



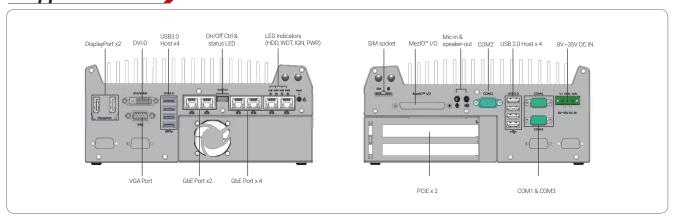
| <b>Expansion Bus</b>            |  |  |  |
|---------------------------------|--|--|--|
| PCI/PCI Express                 | 2x PCle x8 slot @ Gen3, 4-lanes PCle signals in expansion Cassette   |  |  |
| Mini PCI-E                      | 1x internal mini PCI Express socket with front-accessible SIM socket<br>1x internal mini PCI Express socket with internal SIM socket<br>(mux with mSATA) |  |  |
| Expandable I/O                  | 1x MezlO™ expansion port for Neousys' MezlO™ modules   |  |  |
| Power Supply                    |  |  |  |
| DC Input                        | 1x 3-pin pluggable terminal block for 8~35VDC DC input   |  |  |
| Remote Ctrl. &<br>Status Output | 1x 10-pin (2x5) wafer connector<br>for remote on/off control and status LED output   |  |  |
| Mechanical                      |  |  |  |
| Dimension                       | 240 mm (W) x 225 mm (D) x 111 mm (H)   |  |  |
| Weight                          | 3.7 kg (incl. CPU, memory and HDD)   |  |  |
| Mounting                        | Wall-mount by mounting bracket (standard) or DIN-rail mounting (optional)  |  |  |
| Environmental                   |  |  |  |
| Operating<br>Temperature        | -25°C ~ 70°C **  | i7-6700TE (35W TDP)<br>i5-6500TE (35W TDP)<br>i3-6100TE (35W TDP)<br>Pentium G4400TE (35W TDP) |  |
|                                 | -25°C ~ 70°C */**<br>(configured as 35W CPU mode)<br>-25°C ~ 50°C */**<br>(configured as 65W/ 51W CPU mode)  | i7-6700 (65W/51W TDP)<br>i5-6500 (65W/51W TDP)<br>i3-6100 (65W/51W TDP)                        |  |
| Storage<br>Temperature          | -40°C ~ 85°C   |  |  |
| Humidity                        | 10%~90%, non-condensing  |  |  |
| Vibration                       | Operating, 5 Grms, 5-500 Hz, 3 Axes<br>(w/ SSD, according to IEC60068-2-64)  |  |  |
| Shock                           | Operating, 50 Grms, Half-sine 11 ms Duration<br>(w/ SSD, according to IEC60068-2-27)   |  |  |
| EMC                             | CE/ FCC Class A, according to EN55024 & EN55032  |  |  |

<sup>\*</sup> 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.

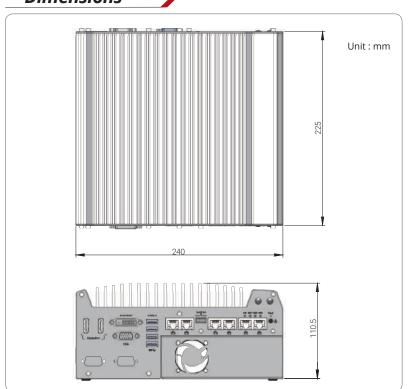
higher operating temperature. \*\* For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.



### **Appearance**



## **Dimensions**





▲ Nuvo-5026E



▲ Dual PCle Cassette

# **Ordering Information**

| Model No.            | Product Description  |
|----------------------|--|
| Nuvo-5026E           | Intel® 6th-Gen Core™ fanless controller with dual PCIe Cassette, 6x GbE and MezIO™ interface |
| Ontional IFFF 802 3a | t PoF+ for GbF norts 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  |  |
| DmpbrNuvo5000_7000 | Neousys' patented damping bracket assembly for Nuvo-7000E/DE/P  |  |
| MezIO™ Modules     |   |  |
| MezIO™-C180        | MezlO™ module with 4x RS-232/422/485 ports and 4x RS-232 ports  |  |
| MezIO™-C181        | MezlO™ 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        | MezlO™ module with 16-CH isolated digital input and 16-CH isolated digital output   |  |
| MezIO™-V20-EP      | MezlO™ module with ignition power control function for in-vehicle usage   |  |
| MezIO™-G4P         | MezlO™ module with 4x Gigabit 802.3at PoE+ ports  |  |
| MezIO™-G4          | MezlO™ module with 4x Gigabit Ethernet ports  |  |
| MezIO™-U4          | MezIO™ module with 4x USB3.0  |  |