Nuvo-3005TB

Intel® 3rd-Gen Core™ i7 /i5/ i3 Fanless Embedded Controller with 3.5" Storage Capacity

Key Features

- Intel® 3rd-Gen Core™ i7 quad-core processor
- Wide temperature -25°C to 70°C operation
- Up to 5x GigE ports, supporting 9.5 KB jumbo frame
- Rugged, -25°C to 70°C fanless operation
- Supports one 3.5" HDD and one 2.5" HDD
- 4x USB3.0 ports + 4x USB2.0 ports
- Option of isolated DIO with Change-of-State interrupt support

CE FC

Introduction

Nuvo-3005TB are embedded versions of Nuvo-3000 series. They allow installation of one 3.5" HDD supporting the latest terabyte storage capacity in an embedded platform with superior reliability and durability.

Nuvo-3005TB incorporates Intel® 3rd-Gen Core™ i7 quad-core processor and versatile I/O functions such as Gigabit Ethernet ports, USB3.0 ports and dual display outputs. As options, it offers isolated DIO with COS (Change-of-State) interrupt support for wider range of applications.

Inside its compact chassis, Nuvo-3005TB/ 3003TB can accommodate one 2.5" HDD/ SSD and one 3.5" HDD supporting the latest terabyte storage capacity. A dedicated shock-absorbing bracket is designed to protect 3.5" HDD from shock/ vibration, and a unique isolation/ conduction chamber is used to manage heat generated by 3.5" HDD and increase overall system stability.

Specifications

System Core

Processor	Intel® Core™ i7-3610QE (2.3/ 3.3 GHz, 6 MB cache) Intel® Core™ i5-3610ME (2.7/ 3.3 GHz, 3 MB cache) Intel® Celeron® 1020E (2.2 GHz, 2 MB cache)
Chipset	Intel® HM76 Platform Controller Hub
Graphics	Integrated Intel® HD Graphics 4000 Controller (i7 /i5) Integrated Intel® HD Graphics Controller (Celeron)
Memory	2x 204-pin SO-DIMM sockets, up to 16GB DDR3 1333/1600 MHz SDRAM

I/O Interface

Ethernet	5x Gigabit Ethernet ports by Intel® I210
PoE (Optional)	Option of PoE capability for 4x GbE
Video Port	1x DB-15 connector for analog RGB, supporting 2048x1536 resolution 2x DVI-D connectors for DVI outputs, supporting 1920x1080 resolution (dual-independent display support)
USB	4x USB3.0 ports and 4x USB2.0 ports
Serial Port	2x software-programmable RS-232/422/485 (COM1 & COM2)
Isolated DIO (Optional)	8x isolated DI with COS interrupt and 8x isolated DO
KB/MS	1x 6-pin mini-DIN connector for PS/2 keyboard/mouse
Audio	1x Mic-in and 1x speaker-out

Storage Interface

SATA HDD	1x internal SATA port for 2.5" HDD/ SSD installation 1x internal SATA port for 3.5" HDD installation
CFast	1x CFast socket

Expansion Bus

Mini PCI-E	1x internal mini PCI Express socket with USIM socket 1x internal mini PCI Express socket

Power Supply & Ignition Control

DC Input	1x 4-pin power connector for 8~25V DC input (for AC adapter) 1x 3-pin pluggable terminal block for 8~25V DC input (for direct DC wiring)
Remote Ctrl. & Status Output	1x 10-pin (2x5) wafer connector for remote on/off control and status LED output
Power Consumption	With i7-3610QE : 72.96W (3.84A@19V) With i5-3610ME : 48.83W (2.57A@19V)

Mechanical

Dimension	240mm (W) x 225mm (D) x 86mm (H)
Weight	3.4 kg (incl. CPU, memory and HDD)
Mounting	Wall-mounting (standard) or DIN-rail mounting (optional)

Environmental

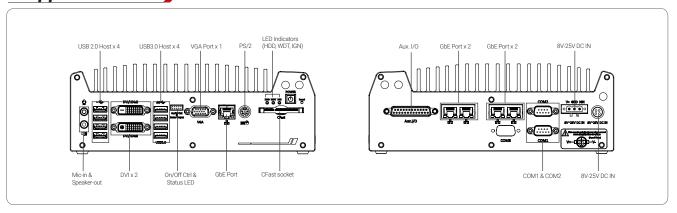|	
Operating Temperature	-25°C ~ 70°C */** (with i5-3610ME & Celeron 1020E) -25°C ~ 60°C */** (with i7-3610QE)
Storage Temperature	-40°C ~ 85°C
Humidity	10%~90% , non-condensing
Vibration	Operating, 5Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
Shock	Operating, 50Grms, Half-sine 11ms Duration (w/ SSD, according to IEC60068-2-27)
EMC	CE/FCC Class A, according to EN 55022 & EN 55024

*100% CPU loading is applied using Intel® Thermal Analysis Tool. For detail testing criteria, please contact Neousys Technology.
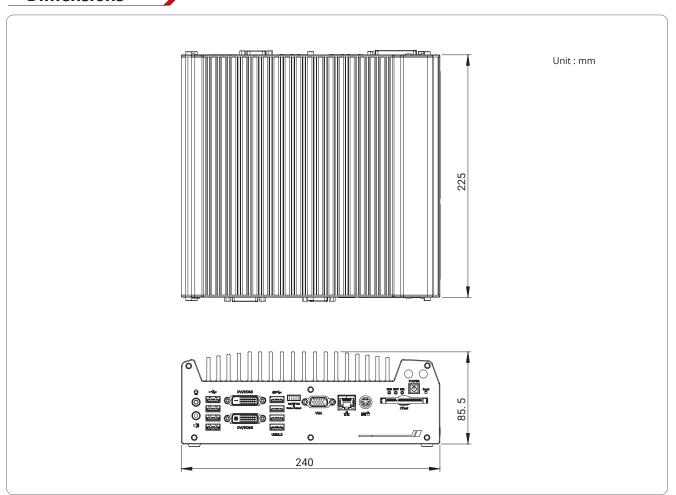**For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.

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Appearance

USB 2.0 Host x 4   USB3.0 Host x 4   VGA Port x 1   PS/2   LED Indicators (HDD, WDT, IGN)   Aux. I/O   GbE Port x 2   GbE Port x 2   8V-25V DC IN

Mic-in & Speaker-out   DVI x 2   On/Off Ctrl & Status LED   GbE Port   CFast socket   COM1 & COM2   8V-25V DC IN

Dimensions

Unit : mm

225

85.5

240

Ordering Information

Model No.	Product Description
Nuvo-3005TB	Intel® 3rd-Gen Core™ i fanless embedded controller with 5x GbE, 4x USB3.0, dual SATA ports and 3.5" HDD accommodation
Option of isolated DIO(8DI + 8DO)	
Option of PoE capability for 4x GbE	

Optional Accessories

DINRAIL-O	DIN-rail mounting assembly for Nuvo-3000 series
PA-120W-OW	120W AC/DC power adapter 20V/6A; 18AWG/120cm; cord end terminals for terminal block, operating temperature : -30 to 70 °C.