



1089.00 EUR incl. 19% VAT, plus shipping

- -25 °C to 70 °C
- 5x Intel I210 Gigabit
- Vehicle IGN control
- 1x PCI slot



Support: Specifications

- Intel® 3rd-Gen i7 Quad-core superb performance
- Patent Cassette* design for PCIe/PCI add-on card expansion (* R.O.C Patent No. M456527)
- Integrated 5x GigE ports, supporting 9.5 KB jumbo frame
- Rugged, -25 °C to 70 °C fanless operation
- Intelligent ignition power control for vehicle applicatio
- VGA/DVI/HDMI multiple display outputs
- 4x USB 3.0 ports + 4x USB 2.0 ports
- Optional isolated DIO with Change-of-State interrupt support

Introduction

Discover a leaping of embedded controller design with Neousys Nuvo-3000 series!

Nuvo-3000 incorporates the cutting-edge processor technology and Neousys' innovative Cassettearchitecture to construct a truly reliable and versatile embedded controller. Its 3rd-Gen i7 Quad-core processor delivers tremendous boost of computing power as well as significant improvement of graphics performance. This platform also natively supports new features such as triple independent

[http://www.cartft.com/catalog/il/1772]

display outputs and USB 3.0.

Inheriting the heritage of proven Nuvo series, Nuvo-3000 is extremely reliable mechanically and allows -25 to 70°C operating temperature. Moreover, it comes with Neousys' patent Cassettedesign. This unique expansion Cassetteoffers PCI/PCIe slot with minimal thermal interference between system and add-on card, so that your system can always operate in expected thermal condition. Or you can use Cassetteto accommodate one 3.5" hard drive for storage expansion.

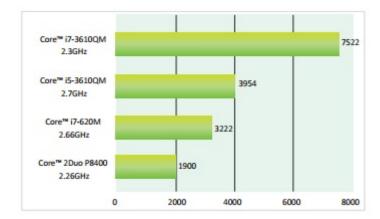
I/O functions on Nuvo-3000 are versatile. Gigabit Ethernet, USB 3.0 and triple independent display outputs are natively supported on Nuvo-3000. Its optional isolated digital I/O now supports Change-of-State interrupt to give more usability. We also introduce the function of intelligent ignition control to Nuvo-3000 to make it suitable for in-vehicle applications.

As the quad-core processor boosting performance, innovative Cassetteincreasing expandability, and ignition control bringing in-vehicle mobility, Nuvo-3000 is ready for arbitrary application requirements

Product Highlights

Quad-core Superb Performance

Nuvo-3000 supports Intel® 3rd-Gen i7 processor to offer superb computing power. Its 4-cores/8-threads architecture has 233% performance increase compared to previous i7-620M processor. In addition, the integrated Intel® HD 4000 Graphics engine also significantly advances the graphics performance.



Innovative Expansion Cassette

Providing an expansion slot inside a fanless controller is easy, but the real challenge is to deal with the heat generated by add-on card. That's why we invent our patent expansion Cassettefor Nuvo-3000. By creating an isolated chamber to accommodate add-on card separately, Nuvo-3000 can effectively minimize the thermal interference and maintain system stability. Additional thermal solution, such as customized heat-spreader, can be applied inside Cassette to realize a truly rugged fanless system with diversified add-on cards.





Intelligent Ignition Control with Adjustable On/off Delay

A common requirement for in-vehicle applications is to correlate system on/off with vehicle ignition signal and predefined delay. Nuvo-3000 features a SoC-based implementation that monitors the ignition signal and reacts to turn on/off the system according to predefined on/off delay. Its built-in algorithm supports further features such as ultra-low standby power, battery-low protection, system hard-off and etc. With intelligent ignition control, Nuvo-3000 can be deployed seamlessly for a diverse range of in-vehicle applications.



Versatile I/O functions

Nuvo-3000 has plenty of I/O functions to meet arbitrary application requirements. Its Gigabit Ethernet ports and USB 3.0 ports provide high-bandwidth data connectivity, while its triple independent display outputs provide benefits for image-related applications. There are two internal mini-PCIe slots for expanding WIFI/3G capability. We also offer the option of isolated DIO which supports Change-of-State interrupt and is very useful for industrial usage.



Intel® Core™ i7-3610QE/3610QM (2.3/3.3 GHz, 6 MB cache)

Processor 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)

2x 204-pin SO-DIMM sockets,

Memory up to 16 GB DDR3 1333/1600 MHz SDRAM

Front-panel I/O Interface

Ethernet Up to 5x Gigabit Ethernet ports by Intel® I210



1x DB-15 connector for analog RGB,

supporting 2048x1536 resolution

Video Port 2x DVI-I connectors for DP/HDMI/DVI outputs,

supporting 2560x1600 (DP) 1920x1080

(DVI/HDMI) resolution

(***2x Video Outputs maximum)

2x software-programmable RS-232/422/485

(COM1 & COM2)

USB 4x USB 3.0 ports and 4x USB 2.0 ports

Isolated DIO

8x isolated digital input channels with COS interrupt

and 8x isolated digital output channels

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

CFast 1x CFast socket

Expansion Bus

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

1x internal mini PCI Express socket

1x PCI slot in Cassette(Nuvo-3003P/3005P)

PCI/PCI Express 1x PCIe x8 slot via x16 connector in Cassette

(Nuvo-3003E/3005E)

Power Supply & Ignition Control

DC Input 1x 4-pin power connector for 8~25V DC input

Ignition Control1x 3-pin pluggable terminal block for ignition signal input (IGN/GND/V+)

Remote Ctrl.

1x 10-pin (2x5) wafer connector for

remote on/off control and status LED output

Status Output

Serial Port

Mechanical

Dimension 240 mm (W) x 225 mm (D) x 90 mm (H)

Weight 4.4 Kg (including 2.5" HDD and DDR3 SODIMM)

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)

StorageTemperature 40°C ~ 85°C

Humidity 10%~90%, non-condensing

Vibration Operating, 5 Grms, 5-500 Hz, 3 Axes(w/ SSD, according to

IEC60068-2-64)

Shock Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according

to IEC60068-2-27)

EMC CE/FCC Class A, according to EN 55022 & EN 55024

MTBF 93,732 hours