



1089.00 EUR incl. 19% VAT, plus <u>shipping</u>

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

Support: The 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

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.

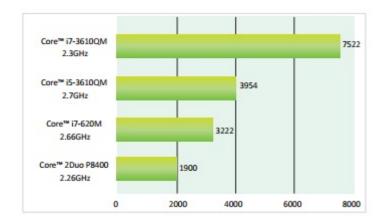
I/O functions on Nuvo-3000 are versatile. Gigabit Ethernet, USB 3.0 and triple independent display outputs are natively supported on Nuvo-3000. Its optional isolated digital I/O now supports Change-of-State interrupt to give more usability. We also introduce the function of intelligent ignition control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



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	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)	
Memory	2x 204-pin SO-DIMM sockets,	
	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
	2x DVI-I connectors for DP/HDMI/DVI outputs,
Video Port	supporting 2560x1600 (DP) 1920x1080
	(DVI/HDMI) resolution
	(***2x Video Outputs maximum)
	2x software-programmable RS-232/422/485
Serial Port	(COM1 & COM2)
USB	4x USB 3.0 ports and 4x USB 2.0 ports
	8x isolated digital input channels with COS interrupt
Isolated DIO	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
S	torage Interface
SATA HDD	1x Internal SATA port for 2.5" HDD/SSD installation
CFast	1x CFast socket
	Expansion Bus
	1x internal mini PCI Express socket with USIM socket
Mini PCI-E	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 St	upply & Ignition Control
DC Input	1x 4-pin power connector for 8~25V DC input
Ignition Control	1x 3-pin pluggable terminal block for
Ignition Control	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	
	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)
operating remperature	-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
VISIAION	IEC60068-2-64)
Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according
CHOCK	to IEC60068-2-27)
EMC	CE/FCC Class A, according to EN 55022 & EN 55024
MTBF	93,732 hours