

798.00 EUR

incl. 19% VAT, plus shipping

- -25 °C to 70 °C
- 3x Intel 82574L Gigabit
- 4x COM



Support:  [Specifications \[EN\]](#)

Boosting your computing engine to a new era! Incorporating Intel Core™ i7/i5 processor, the Nuvo-1000 controller offers extraordinary performance for arithmetic-intensive applications, while its fanless embedded design provides superb reliability and durability. The system comes with unique and smart main board and mechanical design. It is formed up only by a single main board and single heat sink to achieve most ruggedized and widest operating temperature embedded system in the market.

Nuvo-1000 also integrates versatile I/O interfaces in a compact chassis. It provides up to 5 Gigabit Ethernet ports and 2 eSATA ports, which is particularly useful for machine vision, surveillance and security applications. The VGA+DVI/HDMI dual display accomplishes an easy way of high-resolution content output for image or media applications. In addition, Nuvo-1000 also features rich IO functions, such as optional isolated DIO and PCI-104 expansion bus, to fit a broader range of applications.

The fanless design of Nuvo-1000 gives it exceptional long-term durability and tolerance to vibration, and its -25°C to +70°C temperature range provides a more reliable operation in various

environments. For a quest of performance and reliability, Nuvo-1000 is the answer!

For a full PC you need in addition :

- Intel Core i5/i7 Mobile CPU (PGA-988)
- SO-DDR-III RAM
- 2.5" HDD/SSD or CompactFlash

System Core

Processor

Intel Core i3, i5, i7 mobile processors
Socket G (rPGA988A)

[i7-620M,i5-540M,i5-520M,i5-450M,i5-430M]

Chipset

Intel® HM55 Platform Controller Hub

Graphics

Integrated Intel® HD Graphics Controller

Memory

1x 204-pin SO-DIMM socket, up to 4GB DDR3
1066MHz SDRAM

Front-panel I/O Interface

Ethernet

1x Intel® 82574L Gigabit Ethernet port

Video Port

1x DB-15 connector for analog RGB, supporting
2560x1600 resolution

1x DVI-D connector for DVI/HDMI output,
supporting 1920x1080 resolution

Serial Port

1x software-programmable RS-232/422/485
(COM1)

3x RS-232 (COM2 ~ COM4)

USB

6x USB 2.0 ports

KB/MS

1x PS/2 keyboard and 1x PS/2 mouse

Audio

1x Mic-in and 1x Speaker-out

Digital I/O

8x isolated DI and 8x isolated DO (optional)

Storage Interface

SATA HDD

1x Internal SATA port for 2.5" HDD/SSD
installation

eSATA

2x eSATA ports for storage expansion

CompactFlash

1x Type I CF socket

Expansion Bus

Mini PCI-E

1x internal mini PCI Express socket with SIM
socket

PCI-104

1x Internal PCI-104 socket (optional)

Power Supply

DC Input

Built-in 8~28 VDC DC input

Input Connector

1x 4-pin pluggable terminal block with remote on/
off control

1x DC jack (ø2.5) for AC/DC adapter input

Mechanical

Dimension

240 mm (W) x 195 mm (D) x 76 mm (H)

Weight

2.7 Kg (including 2.5" HDD and DDR3 SODIMM)

Mounting

Wall-mount by mounting bracket

Environmental

Operating Temperature

Ambient with air flow (> 0.5 m/s or 1.8 km/hr),
100% CPU loading*

-25°C ~ 70°C (Nuvo-1005S-620M &
Nuvo-1003S-520M)

-25°C ~ 60°C (Nuvo-1003S-4500P)

Ambient without air flow, 100% CPU loading*

-25°C ~ 60°C (Nuvo-1005S-620M &
Nuvo-1003S-520M)

-25°C ~ 50°C (Nuvo-1003S-4500P)

-40°C extended temperature option is also
available. Please contact Neosys for further
information.

-40°C ~ 85°C

10%~90% , non-condensing

Operating, 5 Grms, 5-500 Hz, 3 Axes
(w/ SSD, according to IEC60068-2-64)

Operating, 50 Grms, Half-sine 11 ms Duration
(w/ SSD, according to IEC60068-2-27)

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

Storage Temperature

Humidity

Vibration

Shcok

EMC

