



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<br>Socket G (rPGA988A)<br>[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<br>1x DVI-D connector for DVI/HDMI output, supporting 1920x1080 resolution |
| Serial Port | 1x software-programmable RS-232/422/485 (COM1)<br>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<br>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*<br>-25°C ~ 70°C (Nuvo-1005S-620M & Nuvo-1003S-520M)<br>-25°C ~ 60°C (Nuvo-1003S-4500P)<br>Ambient without air flow, 100% CPU loading*<br>-25°C ~ 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M)<br>-25°C ~ 50°C (Nuvo-1003S-4500P)<br><br>-40°C extended temperature option is also available. Please contact Neousys for further information. |
| Storage 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 EN 55022 & EN 55024   |

