



948.00 EUR

incl. 19% VAT, plus shipping

- -25 °C to 70 °C
- 5x Intel 82574L Gigabit
- 4x COM

Support: The 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

Intel Core 13, 5, 7 mobile processors Processor Socket 0 (PGA088A) [77-620ML5-520ML5-520ML5-530M] Chipset Intel/0 HM55 Platform Controller Hub Graphics Intel/0 HM55 Platform Controller Hub Graphics Val-pin SO-DIMM socket, up to 4GB DDR3 1066MHz SDRAM Front-panel I/O Inter/des Val-pin SO-DIMM socket, up to 4GB DDR3 1056MHz SDRAM Ethemet 1x Intel® 82574L Gigabit Ethemet port Yuloo Donnector for DV/HDMI output, supporting 1520x1080 resolution 1x DR-15 connector for DV/HDMI output, supporting 1520x1080 resolution Serial Port 1x SB-232 (20M2 - COM4) 228 - 222 (20M2 - COM4) USB 0x USB 2.0 ports Serial Port 3x RS-232 (COM2 - COM4) USB 0x USB 2.0 ports Serial Port 3x RS-232 (COM2 - COM4) USB 0x USB 2.0 ports Serial Port 3x RS-232 (COM2 - COM4) USB 0x USB 2.0 ports Serial Port Serial Port Sortal Internal TX Port For 2.5* PLD/SSD Installation 1x PS/2 keyboard and 1x PS/2 resource Sortal Port 1x Type 1 CF socket Fortal TX ports for storage expansion CompactFlash Origit Consector 1x Internal PCI-104 socket Serial Port 14 socket	System Core	
(iP:620M.5-620M.5-620M.5-630M.5-430M.ChipadeIntegrated Intel® HDG Graphics ControllerGraphicsIntegrated Intel® HDG Graphics ControllerMemory1x 204-pin SO-DIMM socket, up to 4GB DDR3 1066MHz SDRAMFront-ganel VO IntererIx Intel® 82574L Gigabit Ethernet portChemory1x Intel® 82574L Gigabit Ethernet portVideo Port1x Solt-So connector for analog RGB, supporting 2560x1600 resolutionSrain Port808-20 portsConstruction1x Solt-So connector for DVI-HDM output, supporting 1920x1060 resolutionSrain Port808-20 portsUSB0x Solt-So connector for DVI-HDM output, supporting 1920x1060 resolutionUSB0x Solt-So connector for DVI-HDM output, supporting 1920x1060 resolutionUSB0x Solt-So connector for DVI-HDM output, supporting 1920x1060 resolutionUSB0x Solt-Solt-Solt-Solt-Solt-Solt-Solt-Solt-		Intel Core i3, i5, i7 mobile processors
Chipset Intel® HMSS Platform Controller Hub Graphics Integrated Intel® HD Graphics Controller Wemory 1x 204-pin SO-DIMM socket, up to 4GB DDR3 1066MHz SDRAM Front-ganal I/O Interface Ethernet Ethernet 1x Intel® 82574L Gigabit Ethernet port 1x DV-D connector for DV/HDMI output, supporting 2560x1600 resolution 1x SDV-D connector for DV/HDMI output, supporting 120x10800 resolution 1x Software-programmable RS-322422/485 (COM1) Sar SA Sar SA Serial Port 3x RS-232 (COM2 - COM4) USB 6x USB 2.0 ports KSMS 1x PS2 keyboard and 1x PS12 mouse Audio 1x Mic-in and 1x Speake-out Digital I/O 8x isolated DO (optional) Storage Interface Storage Interface SATA Port Sor Storage expansion CompactFlash 1x Type I CF socket Expansion Bue Mini PCI-E 1x Internal PCI-104 socket Power Supply Difference Di Chout 1x Internal PCI-104 socket Power Supply Sull-In 8-28 VDC DC Input Pure Connector 1x Apin plugable terminal block with remote on/off control	Processor	Socket G (rPGA988A)
GraphicsIntegrated Intel® HD Graphics ControllerMemorytx 204-pin SO-DIMM socket, up to 4GB DDR3 1066MHz SDRAMFront-panel VO InterfaceEthernet1x Intel® 28274L Gigabit Ethernet portVideo Port1x DP-D connector for DVI/HDMI output, supporting 1920x1080 resolutionStrail Port3x RS-323 (COM2 - COM4)Supporting 1920x1080 resolutionStrail Port1x software-programmable RS-232/422/485 (COM1)Strail Port3x RS-323 (COM2 - COM4)USB6x USB 2.0 portsKBMS1x PS/2 keyboard and 1x PS/2 mouseAudiox Mici-an d1 x Speaker-outDigital I/O8x isolated D1 and 8x isolated D0 (optional)Storage Interface1x Internal SATA port for 2.5' HDD/SSD InstallationSATA HDD1x Internal PCI-104 socketPoint Pol-E1x Internal PCI-104 socketPoint Pol-E1x Internal PCI-104 socketPower Support1x D [Gack (ac2, 6) for AC/DC dapter inputDirension240 mm (W) x 15 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5' HDD and DDR3 SODIMM)MouningVal-mounting bracketPorterating TemperatureAmbient with air flow (> 0.5 m/s or 1.8 km/n; 100% CPU loading* -25° C - 60°C (Nuv-1003S-6200P)Operating Temperature40°C > 45°CAmbient without air flow, 100% CPU loading* -25°C - 60°C (Nuv-1003S-6200P)Operating Temperature40°C > 45°CAmbient without air flow, 100% CPU loading* -25°C - 60°C (Nuv-1003S-6200P)Ambient without air flow, 100% CPU loading* 		[i7-620M,i5-540M,i5-520M,i5-450M,i5-430M]
Memory 1x 204-pin SO-DIMM socket, up to 4GB DDR3 1066MHz SDRAM Front-panel I/O Interface Ethemet 1x Intel® 82574L Gigabit Ethemet port Video Port 1x DB-15 connector for analog RGB, supporting 2560x1600 resolution Strail Port 3x Software-programmable RS-232/22/2365 (COM1) Sarial Port 3x RS-232 (COM2 ~ COM4) USB 6x USB 2.0 ports KBMS 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 Storage Interface OxmpactFlash 1x Type I CF socket Expansion Bus Mini PCI-E Mini PCI-E 1x Internal SVC DC Ginput Internal PCI-104 socket Power Supply DC Input Built-in 8-28 VOC DC input Inscheral Ya Gincluding 2.5' HDD AD DR3 SODIMM) Mounting Vale-mount Disk with remote on/off control Input Connector 1x 4-pin pluggable terminal block with remote on/off control Input Connector 1x 4-pin DU SD mm (D) x 76 mm (H) Weight 2.7 Kg (including 2.5' HDD and DDR3 SODIMM) <	Chipset	Intel® HM55 Platform Controller Hub
Front-panel VO Interface Front-panel VO Interface Ethernet 1x IoBe32574. Gigabit Ethernet port Video Port 1x DB-15 connector for DV/HDMI output, supporting 1920x1080 resolution Serial Port 3x R5-232 (COM2 - COM4) Sar R5-232 (COM2 - COM4) Supporting 1920x1080 resolution Stress 6x USB 2.0 ports KBMS 1x Sp24board and 1x Sp24ker-out Jointel VID 8x isolated DI and 8x isolated DO (optional) Strange Interface 1x Internal SATA port for 2.5" HDD/SDI installation SATA HDD 1x Internal SATA port for 2.5" HDD/SDI installation CompactFlash 1x Internal SATA port for 2.5" HDD/SDI installation CompactFlash 1x Internal POL Express socket with SIM socket Poter 1x Internal POL PO Socket Poter 1x DC jack (s2.5) for AC/DC adapter input Poter Supply 1x DC jack (s2.5) for AC/DC adapter input Poter Supply 24 mm (W) x 155 mm (D) x 76 mm (H) Poter Supply 24 mm (W) x 155 mm (D) x 76 mm (H) Poter Supply 24 mm (W) x 155 mm (D) x 76 mm (H) Poter Supply 24 mm (W) x 155 mm (D) x 76 mm (H) Weight 24 mm (W) x 155 mm (D	Graphics	Integrated Intel® HD Graphics Controller
Front-panel VO Interface Front-panel VO Interface Ethernet 1x IoBe32574. Gigabit Ethernet port Video Port 1x DB-15 connector for DV/HDMI output, supporting 1920x1080 resolution Serial Port 3x R5-232 (COM2 - COM4) Sar R5-232 (COM2 - COM4) Supporting 1920x1080 resolution Stress 6x USB 2.0 ports KBMS 1x Sp24board and 1x Sp24ker-out Jointel VID 8x isolated DI and 8x isolated DO (optional) Strange Interface 1x Internal SATA port for 2.5" HDD/SDI installation SATA HDD 1x Internal SATA port for 2.5" HDD/SDI installation CompactFlash 1x Internal SATA port for 2.5" HDD/SDI installation CompactFlash 1x Internal POL Express socket with SIM socket Poter 1x Internal POL PO Socket Poter 1x DC jack (s2.5) for AC/DC adapter input Poter Supply 1x DC jack (s2.5) for AC/DC adapter input Poter Supply 24 mm (W) x 155 mm (D) x 76 mm (H) Poter Supply 24 mm (W) x 155 mm (D) x 76 mm (H) Poter Supply 24 mm (W) x 155 mm (D) x 76 mm (H) Poter Supply 24 mm (W) x 155 mm (D) x 76 mm (H) Weight 24 mm (W) x 155 mm (D	Memory	1x 204-pin SO-DIMM socket, up to 4GB DDR3 1066MHz SDRAM
Ethemet 1x Intel® 82574L Gigabit Ethemet port Video Port 1x DB-15 connector for analog RGB, supporting 2560x1600 resolution Srial Port 1x software-programmable RS-232/422/485 (COM1) 3x RS-232 (COM2 ~ COM4) 3x RS-232 (COM2 ~ COM4) USB 6x USB 2.0 ports KBMS 1x PS/2 keyboard and 1x PS/2 mouse Audio 1x Micin and 1x Speaker-out Digital I/O as isolated DI and 8x isolated DO (optional) Storage Interface SATA HDD 1x Internal SATA port for 2.5° HDD/SD Installation CompactFlash 1x Type I CF socket Expansion Bus	-	
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 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 5000000000000000000000000000000000000		1x Intel® 82574L Gigabit Ethernet port
Video Port 1x DVI-D connector for DVI/HDMI output, supporting 1920x1080 resolution Serial Port 1x software-programmable RS-232/42/455 (COM1) Serial Port 3x RS-232 (COM4) USB 6x USB 2.0 ports KB/MS 1x PS/2 keyboard and 1x PS/2 mouse Audio 1x Micin and 1x Speaker-out Digital I/O 8x isolated DI and 8x isolated DO (optional) Storage Interface		
Serial Port1x software-programmable RS-232/422/485 (COM1) 3x RS-232 (COM2 - COM4)USB6x USB 2.0 portsKB/MS1x PS/2 keyboard and 1x PS/2 mouseAudio1x Mic-in and 1x Speaker-outDigital I/O8x isolated DI and 8x isolated DO (optional)Storage InterfaceSATA HDD1x Internal SATA port for 2.5" HDD/SSD installationcompactFlash1x Type I CF socketExpansion BusMini PCI-E1x Internal PCI Express socket with SIM socketPOl-1041x Internal PCI-104 socketPower SupplyDC InputBullt-in 8-28 VDC DC InputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1x Dc jack (a2.5) for AC/DC adapter inputMechanicalUmension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmentalAmbient with ail flow (> 0.5 m/s or 1.8 km/hr), 100% CPU loading* -25°C - 60°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1003S-650P)Ambient with ail flow (> 0.5 m/s or 1.8 km/hr), 100% CPU loading* -25°C - 60°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1003S-650P)Ambient with ail flow (> 0.5 m/s or 1.8 km/hr), 100% CPU loading* -25°C - 60°C (Nuvo-1003S-650P) -25°C - 60°C (Nuvo-1003S-650P)Ambient with ail flow (> 0.5 m/s or 1.8 km/hr), 100% CPU loading* -25°C - 60°C (Nuvo-1003S-650P) -25°C - 60°C (Nuv	Video Port	
Serial Port3x RS-232 (COM2 - COM4)USB6x USB 2.0 portsKB/MS1x PS/2 keyboard and 1x PS/2 mouseAudio1x Mic-in and 1x Speake-outDigital I/O8x isolated DI and 8x isolated DO (optional)Storage InterfaceStorage InterfaceStrat HDD1x Internal SATA port for 2.5" HDD/SSD installationeSATA2x eSATA ports for storage expansionCompactFlash1x Type I CF socketExpansion BusMini PCI-E1x internal mini PCI Express socket with SIM socketPOer SupplyDC InputBuilt-in 8-28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1x DC jack (a2.5) for AC/DC adapter inputMechanicalDimension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmentalZore C - Go°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C - Go°C (Nuvo-1003S-6520M) -25°C - 60°C		
USB $6x$ USB 2.0 portsKB/MS1x PS/2 keyboard and 1x PS/2 mouseAudio1x Mic-in and 1x Speaker-outDigital I/O8x isolated DI and 8x isolated DO (optional)Storage InterfaceSATA HDD1x Internal SATA port for 2.5" HDD/SSD installationSATA HDD1x Internal SATA ports for storage expansionCompactFlash1x Type I CF socketExpansion BusMini PCI-E1x internal mini PCI Express socket with SIM socketPOIC1x Internal PCI-104 socketPower SupplyDC InputBuilt-in 8-28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off controlInput Connector1x Ac (s2.5) for AC/DC adapter inputMechanicalDimension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmentalAmbient with air flow (> 0.5 m/s or 1.8 km/hr), 100% CPU loading* -25°C - 60°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1003S-620M & Nuvo-1003S-520M	Serial Port	
KB/MS1x PS/2 keyboard and 1x PS/2 mouseAudio1x Micin and 1x Speaker-outDigital I/O8x isolated DI and 8x isolated DO (optional)Storage InterfaceSATA HDD1x Internal SATA port for 2.5" HDD/SSD installationeSATA2x eSATA ports for storage expansionCompactFlash1x Type I CF socketExpansion BusPCI-1041x Internal PCI-Express socket with SIM socketPCI-1041x Internal PCI-104 socketPower SuppyDC InputBuil-In 8-28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1x A C jack (e2.5) for AC/DC adapter inputMoning240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketErvironmental-25°C - 0°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C - 0°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C - 6°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C - 6°C (Nuvo-1003S-4500P)Operating TemperatureMobient without air flow, 10% CPU loading* -25°C - 6°C (Nuvo-1003S-4500P) -25°C - 6°C (Nuvo-1003S-4500P)Vibration(WSD, according to IEC60068-2-64) (w/ SSD, according to IEC60068-2-64)ShcokOperating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-27)	USB	
Audio1x Mic-in and 1x Speaker-outDigital I/O8x isolated DI and 8x isolated DO (optional)Storage InterfaceStar A IDD1x Internal SATA port for 2.5" HDD/SSD installationeSATA2x eSATA ports for storage expansionCompactFlash1x Type I CF socketExpansion BusWini PCI-E1x internal mini PCI Express socket with SIM socketPCI-1041x Internal PCI-104 socketPower SupplyDC InputBill-In 8-28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1x DC jack (a2.5) for AC/DC adapter inputMotining240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmental-25°C - 70°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1003S-4500P)Operating Temperature-40°C extended temperature option is also available. Please contact Neousys for further information.Storage Temperature-40°C extended temperature option is also available. Please contact Neousys for further information.Storage Temperature-40°C extended temperature option is also available. Please contact Neousys for further information.Storage Temperature-60°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1003S-620M & Nuvo-1003S-620M & Nuvo-1003S-620M) -25°C - 60°C (Nuvo-1003S-620M & Nuvo-		·
Digital I/O8k isolated DI and 8k isolated DO (optional)Strage InterfaceSATA HDDIs internal SATA ports for storage expansionCompactFlash1x Type I CF socketExpansion BusExpansion BusPOINT OF 2.5" HDD/SD InstallationPOINT OF 2.5" HDD/SD InstallationPOINT OF 2.5" HDD SocketPOINT OF 2.5" HDD SocketPOINT OF 2.5" HDD SocketPOINT OF 2.5" HDD And DDR3 SODIMM)Moint Point Of (calting 2.5" HDD and DDR3 SODIMM)Moint Point Of (calting 2.5" HDD and DDR3 SODIMM)Moint With art flow (> 0.5 m/s or 1.8 km/r), 10% CPU loading* -25°C - 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1003S-4500P) -25°C - 60°C (Nuvo-1003S-4500P) -		-
Sorage InterfaceSATA HDD1x Internal SATA port for 2.5" HDD/SSD installationeSATA2x eSATA ports for storage expansioncompactFlash1x Type I CF socketExpansion BusMini PCI-E1x internal mini PCI Express socket with SIM socketPOler 1041x Internal PCI-104 socketPower SupplyDDC InputBuilt-in 8-28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1x DC jack (#2.5) for AC/DC adapter inputMechanicalDimension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmental-25°C - 70°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1003S-4500P)Operating Temperature-40°C - 85°CHumidity10%-90%, non-condensingVibrationOperating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-27)ShookOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)		
SATA1x Internal SATA port for 2.5" HDD/SSD installationeSATA2x eSATA ports for storage expansionCompactFlash1x Type I CF socketExpansion BusMini PCI-E1x Internal mini PCI Express socket with SIM socketPCI-1041x Internal PCI-104 socketPower SupplyDC InputBuilt-in 8-28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1x DC jack (e2.5) for AC/DC adapter inputMechanicalDimension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmental-25°C ~ 70°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C ~ 60°C (Nuvo-1003S-4500P)Operating Temperature-25°C ~ 60°C (Nuvo-1003S-4500P) -25°C ~ 60°C (Nuvo-1003S-4500P)Ambient without air flow, 10% CPU loading* -25°C ~ 60°C (Nuvo-1003S-4500P) -25°C ~ 60°C (Nuvo-1003S-4500P)Storage Temperature-40°C ~ 85°CHumidity10%-90%, non-condensing Operating, 5 Grms, 5-50 Hz, 3 Axes (w/SSD, according to IEC60068-2-27)ShookOperating, 5 Grms, 14I-sine 11 ms Duration (w/SSD, according to IEC60068-2-27)	U U	
eSATA2x eSATA ports for storage expansionCompactFlash1x Type I CF socketExpansion BusMini PCI-E1x internal mini PCI Express socket with SIM socketPCI-1041x Internal PCI-104 socketPower SupplyDC InputBuilt-in 8-28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control1x b 2 (ack (e2.5) for AC/DC adapter inputMechanicalWeight2.7 Kg (including 2.5" HDD and DDR3 SODIIMI)MountingWall-mount by mounting bracketEnvironmentalAmbient with air flow (> 0.5 m/s or 1.8 km/hr), 100% CPU loading* -25°C - 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1003S-4500P) -40°C extended temperature option is also available. Please contact Neousys for further information.StorageTemperature40°C - 85°C Humidity10%-90% , non-condensing Operating, 5 Grms, 5-500 Hz, 3 Axes (w) SSD, accordin	-	1x Internal SATA part for 2.5" HDD/SSD installation
CompactFlash1x Type I CF socketExpansion BusMini PCI-E1x internal mini PCI Express socket with SIM socketPCI-1041x Internal PCI-104 socketPower SupplyDC InputBuilt-in 8–28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1x DC jack (a2.5) for AC/DC adapter inputMechanicalDimension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmentalAmbient with air flow (> 0.5 m/s or 1.8 km/hr), 100% CPU loading* -25°C - 70°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-1003S-4500P)Operating TemperatureAmbient with air flow, 100% CPU loading* -25°C - 50°C (Nuvo-1003S-4500P) -40°C extended temperature option is also available. Please contact Neousys for further information.StorageTemperature-40°C ~ 85°CHumidity10%-90%, non-condensing (W SD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	-	
Expansion BusMini PCI-E1x internal mini PCI Express socket with SIM socketPCI-1041x Internal PCI-104 socketPower SupplyDC InputBuilt-in 8-28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1x DC jack (ø2.5) for AC/DC adapter inputMechanicalWeight2.7 Kg (including 2.5" HDD and DDR3 SODIIM)MountingWall-mount by mounting bracketEnvironmentalVorperating Temperature-25°C ~ 70°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C ~ 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C ~ 60°C (Nuvo-1003S-4500P)StorageTemperature-40°C extended temperature option is also available. Please contact Neousys for further information.StorageTemperature-40°C as S°CHumidity10%~90%, non-condensing (w SSD, according to IEC60068-2-64)ShcokOperating, 5 Grms, 5 Gloms, Fall-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)		
Mini PCI-E1x internal mini PCI Express socket with SIM socketPCI-1041x Internal PCI-104 socket Power Supply DC InputBuilt-in 8-28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1 x DC jack (a2.5) for AC/DC adapter input MechanicalMechanical Weight240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmentalAmbient with air flow (> 0.5 m/s or 1.8 km/hr), 100% CPU loading* -25°C ~ 70°C (Nuvo-1003S-4500P)Ambient without air flow, 100% CPU loading* -25°C ~ 60°C (Nuvo-1003S-4500P)Ambient without air flow, 100% CPU loading* -25°C ~ 50°C (Nuvo-1003S-4500P)Advient without air flow, 100% CPU loading* -25°C ~ 50°C (Nuvo-1003S-4500P) -25°C ~ 60°C (Nuvo-1003S-4500P)Advient without air flow, 100% S-620M & Nuvo-1003S-520M) -25°C ~ 50°C (Nuvo-1003S-4500P)Advient without air flow, 100% CPU loading* -25°C ~ 50°C (Nuvo-1003S-4500P) -40°C extended temperature option is also available. Please contact Neousys for further information.StorageTemperature40°C ~ 85°CHumidity10%-90%, non-condensing Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	•	TX Type TCF Socket
PCI-1041x Internal PCI-104 socketPower SupplyDC InputBuilt-in 8-28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1x DC jack (ø2.5) for AC/DC adapter inputMechanicalMechanicalWeight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmentalOperating TemperatureAmbient with air flow (> 0.5 m/s or 1.8 km/hr), 100% CPU loading* -25° C - 70°C (Nuvo-100SS-620M & Nuvo-1003S-520M) -25°C - 60°C (Nuvo-100SS-620M & Nuvo-1003S-620M &	-	An internal mini DOL Emerges as detainth OIM as also
Power SupplyDC InputBuilt-in 8~28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1x DC jack (ø2.5) for AC/DC adapter inputMechanicalDimension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmental		
DC InputBuilt-in 8–28 VDC DC inputInput Connector1x 4-pin pluggable terminal block with remote on/off control 1x DC jack (ø2.5) for AC/DC adapter inputMechanicalDimension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmental-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)Operating TemperatureAmbient without air flow, 100% CPU loading* -25°C ~ 60°C (Nuvo-1003S-4500P) -25°C ~ 60°C (Nuvo-1003S-4500P) -25°C ~ 50°C (Nuvo-1003S-4500P)StorageTemperature-40°C ~ 85°CHumidity10%~90%, non-condensing (W/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (W/ SSD, according to IEC60068-2-27)		TX Internal PCI-104 Socket
Input Connector1x 4-pin pluggable terminal block with remote on/off control 1x DC jack (ø2.5) for AC/DC adapter inputMechanicalDimension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmental		
Input Connector1x DC jack (ø2.5) for AC/DC adapter inputMechanicalDimension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmentalAmbient 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)Operating TemperatureAmbient without air flow, 100% CPU loading* -25°C ~ 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C ~ 60°C (Nuvo-1003S-4500P)Operating TemperatureAmbient without air flow, 100% CPU loading* -25°C ~ 60°C (Nuvo-1003S-4500P) -40°C extended temperature option is also available. Please contact Neousys for further information.StorageTemperature-40°C ~ 85°CHumidity10%-90% , non-condensing (W SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (W SSD, according to IEC60068-2-27)	DC Input	
In the DC jack (#2.5) for AC/DC adapter inputMechanicalDimension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmentalAmbient 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)Operating TemperatureAmbient with air flow, 100% CPU loading* -25°C - 60°C (Nuvo-1003S-4500P) Ambient without air flow, 100% CPU loading* -25°C - 60°C (Nuvo-1003S-4500P) -25°C - 60°C (Nuvo-1003S-4500P) -40°C extended temperature option is also available. Please contact Neousys for further information.StorageTemperature40°C - 85°C HumidityVibrationOperating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	Input Connector	
Dimension240 mm (W) x 195 mm (D) x 76 mm (H)Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmentalAmbient 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)Operating TemperatureAmbient without air flow, 100% CPU loading* -25°C ~ 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C ~ 60°C (Nuvo-1003S-4500P)Operating Temperature-40°C c Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C ~ 60°C (Nuvo-1003S-4500P) -40°C extended temperature option is also available. Please contact Neousys for further information.StorageTemperature-40°C ~ 85°C HumidityVibrationOperating, 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)		1x DC jack (Ø2.5) for AC/DC adapter input
Weight2.7 Kg (including 2.5" HDD and DDR3 SODIMM)MountingWall-mount by mounting bracketEnvironmentalAmbient 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)Operating TemperatureAmbient without air flow, 100% CPU loading* -25°C ~ 60°C (Nuvo-1003S-4500P) Ambient without air flow, 100% CPU loading* -25°C ~ 60°C (Nuvo-1003S-4500P) -40°C extended temperature option is also available. Please contact Neousys for further information.StorageTemperature-40°C ~ 85°C HumidityVibrationOperating, 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)		
MountingWall-mount by mounting bracketEnvironmentalAmbient 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)Operating TemperatureAmbient without air flow, 100% CPU loading* -25°C ~ 60°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C ~ 60°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C ~ 60°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C ~ 50°C (Nuvo-1003S-4500P) -40°C extended temperature option is also available. Please contact Neousys for further information.StorageTemperature-40°C ~ 85°C HumidityHumidity10%~90%, non-condensing (W SSD, according to IEC60068-2-64) Operating, 50 Grms, Half-sine 11 ms Duration (W SSD, according to IEC60068-2-27)		
Environmental 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) Operating Temperature Ambient without air flow, 100% CPU loading* -25°C ~ 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -25°C ~ 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -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 Neousys for further information. 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) Shcok Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	-	
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)Operating TemperatureAmbient without air flow, 100% CPU loading* -25°C ~ 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M) -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 Neousys for further information.StorageTemperature-40°C ~ 85°C 	-	Wall-mount by mounting bracket
Operating Temperature-25°C ~ 70°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C ~ 60°C (Nuvo-1003S-4500P)Ambient without air flow, 100% CPU loading* -25°C ~ 60°C (Nuvo-1003S-620M & Nuvo-1003S-520M) -25°C ~ 60°C (Nuvo-1003S-4500P) -40°C extended temperature option is also available. Please contact Neousys for further information.StorageTemperature-40°C ~ 85°CHumidity10%~90% , non-condensing Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	Environmental	
Operating Temperature-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 Neousys for further information.StorageTemperature-40°C ~ 85°CHumidity10%~90%, non-condensingVibrationOperating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)		
Operating TemperatureAmbient 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 Neousys for further information.StorageTemperature-40°C ~ 85°CHumidity10%~90% , non-condensing Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)		-25°C ~ 70°C (Nuvo-1005S-620M & Nuvo-1003S-520M)
Operating Temperature-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 Neousys for further information.StorageTemperature-40°C ~ 85°C HumidityHumidity10%~90% , non-condensing Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)		
-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 Neousys for further information.StorageTemperature-40°C ~ 85°CHumidity10%~90%, non-condensingVibrationOperating, 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)	Operating Temperature	Ambient without air flow, 100% CPU loading*
-40°C extended temperature option is also available. Please contact Neousys for further information.StorageTemperature-40°C ~ 85°CHumidity10%~90%, non-condensingVibrationOperating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)		-25°C ~ 60°C (Nuvo-1005S-620M & Nuvo-1003S-520M)
StorageTemperature-40°C ~ 85°CHumidity10%~90%, non-condensingVibrationOperating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)		-25°C ~ 50°C (Nuvo-1003S-4500P)
StorageTemperature-40°C ~ 85°CHumidity10%~90%, non-condensingVibrationOperating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)		4000 successful terms and the instance in the provide the Disease sector (New york for forther information
Humidity10%~90% , non-condensingVibrationOperating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	o. T	
VibrationOperating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)ShcokOperating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)		
Vibration (w/ SSD, according to IEC60068-2-64) Shcok Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	Humidity	-
(w/ SSD, according to IEC60068-2-64) Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	Vibration	
Shcok (w/ SSD, according to IEC60068-2-27)		
(w/ SSD, according to IEC60068-2-27)	Shcok	
EMC CE/FCC Class A, according to EN 55022 & EN 55024		
	EMC	CE/FCC Class A, according to EN 55022 & EN 55024



