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Nematron nPC300-IECEx Fanless Industrial PC

Non-Display, High Performance Fanless Node PCs

IECEx / ATEX Zone 2 Approved

Intel® Fanless Processing

Solid State Drive Storage

55°C Operating Temp

64-bit Application Support

Mounting Options





DS nPC300-N2800-IECEx, Rev B

















Made in USA

Standard Configuration

- High Performance / Very Low Power Fanless Processor
 - Intel® Dual Core ATOM N2800 (1.86 GHz, 1 MB cache, 4 Threads)
- 4 GB DRAM
- 240 GB Easily Removable SATA Solid State Drive
 - Optional larger SSD sizes
- Extensive I/O Connectivity
 - Dual Gigabit (10/100/1000) Ethernet ports
 - Two USB 2.0 ports
 - Two USB 3.0 ports

- One RS-485/422 serial port
- Two RS-232 serial ports
- Additional Analog Video port or HDMI port - supports dual video with internal LCD and one port (Optional HDMI to DVI cable available - sold separately)
- Integrated isolated 24 VDC power supply
- IECEx and ATEX Zone 2 approved when installed in an ATEX approved enclosure as described in DEMKO 14 ATEX 1374X and UL 16.0058X

- UL and cUL Ordinary Locations Listed
- UL and cUL Hazardous Locations Listed
 - Class I Division 2, Groups A, B, C, & D when mounted in a NEMA enclosure
- FCC & European CE compliant
- Windows® 7 Professional (32-bit) pre-installed
 - Windows 7 Ultimate (32-bit) or No OS Installed optional
- 2-year Warranty



Technical Specifications



Physical

Overall Dimensions

7.750" x 12.00" x 2.15" (196.8mm x 304.8mm x 54.61mm)

Overall Dimensions w/ Mounting Brackets

7.750" x 13.30" x 2.45" (196.8mm x 337.82mm x 62.23mm)

Weight

6.5 lbs (2.9 kg)

Shipping Weight

8.0 lbs (3.6 kg)

Processor

ATOM N2800

Intel Dual Core ATOM N2800

Core Speed

1.86 GHz

Threads / Bus/Core

Type & Processor

2/4

L2 Cache Chipset

1MB Intel NM10 Express

Graphics Controller

Integrated Intel GMA 3650 1

Ethernet Controller

Intel 82574L Gigabit 10/100/1000 (2 ports)

Storage & Peripherals

Operating System

Windows 7 Professional (32-bit); Optional Windows 7 Ultimate (32-bit), or No OS installed

DRAM

4GB Single Module (204-pin DDR3 SO-DIMM, non-ECC, unbuffered, 1066 MHz)

Standard Storage

240GB SATA Solid State Drive; Optional 480GB or 960GB Solid State Drive

Available I/O

(1) HDMI Port, (2) USB 2.0, (2) USB 3.0, (2) RS-232, (1) RS-485/422, (1) Analog Video Port (supports dual video),

(2) Ethernet 10/100/1000 Ports

Power

Input Power

35W

DC Input Voltage

18-36 VDC, 6.0 A Maximum

The DEMKO certificate is available online for downloading: http://www.comarkcorp.com/atex/demko_1374x_r2.pdf

The IECEx UL certificate is available online for downloading at: http://www.comarkcorp.com/iecex/ul 16 0058x r0.pdf



¹ Additional Video RAM as needed with DVMT (Dynamic Video Memory Technology).

Technical Specifications

Environmental

Temperature 2 Operating 0°C to 55°C Non-operating -20°C to 70°C

Humidity 20% to 80% RH, noncondensing 20% to 80% RH, noncondensing Shock 3 15g peak acceleration, 11msec 30g peak acceleration, 11msec Vibration (5-2000 Hz) 3 .006" peak to peak displacement, 1.0g maximum acceleration 2.5g maximum acceleration

Altitude 4 Sea level to 10,000 feet Sea level to 40,000 feet

² Temperature specifications are for air temp surrounding the unit (i.e. inside any enclosure being utilized). Meets US Federal Requirements specified in 46 CFR 111.01-15 (d) for offshore electrical systems.

³ Shock & Vibration specifications established with Solid State drives and no rotating media.

⁴ Altitude specification is established by using all internal component specifications.

Compliance

NEMA Rating NEMA 4/4X/12, IP66 FCC 47 CFR, Part 15, Class A

EU CE Marking CE, EN 55022: Class A, EN 61000-3-3, EN 61000-6-2, IEC 60950-1

IECEx Compliance UL 16.0058X

ATEX Compliance ATEX Zone 2 approved when installed in an approved enclosure as described in the certificate DEMKO 14 ATEX 1374X

Agency Approvals * UL508 Listed, ANSI/ISA 12.12.01-2012, cUL Listed CSA C22.2, #142, cUL Listed CSA 22.2, #213

* nPC300-Fanless Series: Class I Division 2, Groups A, B, C, D; Temp. Code: T4A, when installed on a flat surface of a Type 1 enclosure.

Features

- Integrated Isolated 24 VDC Power Supply
- IECEx, ATEX ZONE
 UL/cUL 508, Class
 Div 2, CE Approval
 Label
- 3. Easily Removable SATA Solid State Drive
- 4. Extensive I/O Connectivity
- 5. USB Retention Bracket
- 6. Mounting Brackets
- 7. HDMI Cable Retention Bracket
- 8. Made with Pride in the USA













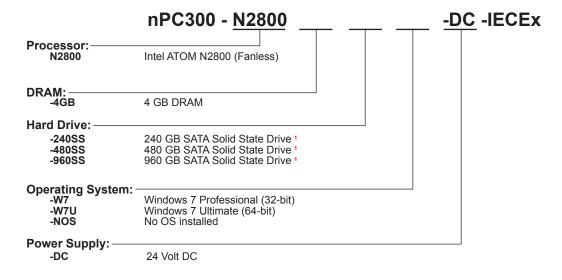




Order Number Generation

Base unit configuration: nPC300-N2800-4GB-240SS-W7-DC-IECEx, includes Intel ATOM N2800, 4 GB DRAM, 240 GB SATA Solid State Drive, 24 VDC power supply, and Windows 7 Professional (32-bit).





¹ Solid State Drive options carry a 5-year (part-only) warranty.

