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Nematron iPC1500 Fanless Industrial PC

15.0" High-Performance, Panel Mount, Touchscreen Computer

UL/cUL Class I Div 2 Approved

Intel® Fanless Processing

LED Backlit Display

Analog Resistive Touchscreen

Solid State Drive Storage

NEMA 4/4X/12, IP66

55°C Operating Temp





DS iPC1500-N2800, Rev B











Made in USA

Standard Configuration

- 15.0 XGA Color TFT LED-backlit display
- High Performance / Very Low Power Fanless Processor
 - Intel® Dual Core ATOM N2800 (1.86 GHz, 1 MB cache, 4 Threads)
- 5-wire Analog Resistive Touchscreen
- Optional Non-Touch with clear Lexan window (polycarbonite)
- 4 GB DRAM
- 240 GB Easily Removable SATA Solid State Drive
 - Optional larger SSD sizes and rotating Hybrid Hard Drive
- Ultra-Thin panel mounting depth, less than 3.2"

- 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 100-240 VAC power supply
 - 24 VDC optional
- Powder Coated Aluminum Front Panel (optional Stainless Steel)

- NEMA 4/4x/12 front panel
- UL and cUL Ordinary Locations Listed
- UL and cUL Hazardous Locations Listed
 - Class I Division 2, Groups A, B, C, & D; Class II Division 2, Groups F & G; Class III 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 12.80" x 15.80" x 2.95" (325.1mm x 401.3mm x 74.9mm)

Panel Mounting Depth 2.70" (68.6mm)

Cutout Dimensions 12.00" x 15.00" (305.0mm x 381.0mm)

Weight 15.0 lbs (6.8kg)

Shipping Weight 19.5 lbs (8.84kg)

Option Weight (SS)* +3.5 lbs (1.58kg)*

* Additional weight for Stainless Steel option.

Display

Display Diagonal 15.0" (381.0mm)

Display Size H x V 11.97" x 8.98" (304.0mm x 228.1mm)

Native Resolution XGA, 1024 x 768

Brightness 400 nit

Contrast Ratio 600:1

Horz/Vert Viewing Angle 140°/120°

Backlight Life / Typical 50,000 hrs

Touchscreen 5-wire Analog Resistive; No Touchscreen option

Processor

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

Type & Processor ATOM N2800

Intel Dual Core ATOM N2800

Core Speed 1.86 GHz
Threads / Bus/Core 2 / 4
L2 Cache 1MB

Chipset 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; 1TB SATA Hybrid Hard Drive ²

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

² Hybrid Hard Drives have a solid state adaptive memory cache to significantly increase read/write performance. These are rotating hard drives and do not carry any extra part warranty.

Power

Input Power 45W

AC Input Voltage 100-240 VAC, 50-60 Hz, 1.0 A Maximum

DC Input Voltage 18-36 VDC, 6.0 A Maximum

Technical Specifications

Environmental

Temperature 3

Humidity Shock 4

Vibration (5-2000 Hz) 4

Altitude 5

Operating 0°C to 55°C

20% to 80% RH, noncondensing

15g peak acceleration, 11msec

.006" peak to peak displacement,

1.0g maximum acceleration

Sea level to 10,000 feet

Non-operating -20°C to 70°C

20% to 80% RH, noncondensing

30g peak acceleration, 11msec

.015" peak to peak displacement,

2.5g maximum acceleration

Sea level to 40,000 feet

3 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.

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

⁵ 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

Agency Approvals *

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

* iPC-Series: Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F & G; Class III; Temp. Code: T4A, when installed on a flat surface of a Type 1, 4, 4X, or 12 enclosure.

Front Panel

Front Panel Options

Powder-Coated Aluminum Front Panel; with No Logo; Machined 304 Stainless Steel

Features

- 1. Optional 5-wire Analog Resistive Touchscreen
- 2. Integral 100-240 VAC or 24 VDC Power Supply
- 3. UL/cUL 508, Class I Div 2, CE Approvals
- 4. Easily Removable SATA Solid State
- 5. Extensive I/O Connectivity
- 6. USB Retention **Bracket**
- 7. USB & Ethernet Cord Hold Down
- 8. Panel Mounting via Clips
- 9. HDMI Cable Retention Bracket
- 10. VESA Mounting iPC1500 - 75mm
- 11. Made with Pride in the USA





Standard 2-year warranty

Covers parts and service

www.comarkcorp.com





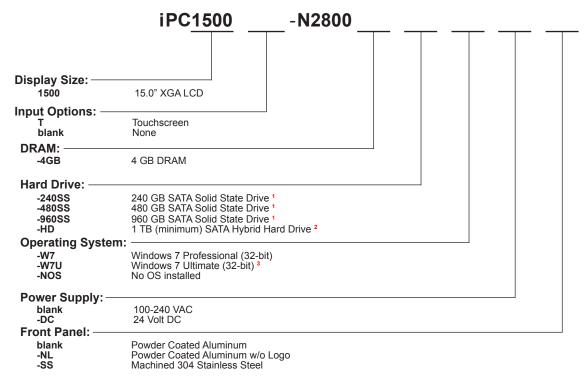




Order Number Generation

Base unit configuration: iPCxx00T-N2800-4GB-240SS-W7, where xx = 12, 15, 17, or 19 (for display size), includes a touch-screen, Intel Dual Core ATOM N2800, 4 GB DRAM, 240 GB SATA Solid State Drive, and Windows 7 Professional (32-bit).





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

² Hybrid Hard Drives have a solid state adaptive memory cache to significantly increase read/write performance. These are rotating hard drives and do not carry any extra part warranty.

³ 64-bit Windows operating systems are not supported by the Intel ATOM N2800 chipset.