

For more information or to request a quote, visit us online at www.comarkcorp.com

Nematron iPC1500-IECEx Fanless Industrial PC

15.0" High-Performance, Panel Mount, Touchscreen Computer

IECEx / ATEX Zone 2/22 Approved

Intel® Fanless Processing

LED Backlit Display

Analog Resistive Touchscreen

Solid State Drive Storage

NEMA 4/4X/12, IP66

55°C Operating Temp





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
- 4 GB DRAM
- 240 GB Easily Removable SATA Solid State Drive
 - Optional larger SSD sizes
- 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 isolated 24VDC power supply
- Powder Coated Aluminum Front Panel (optional Stainless Steel)
- NEMA 4/4x/12 front panel
- IECEx and ATEX Zone 2/22 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; 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) optional
- 2-year Warranty





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.

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

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

Processor

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
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	45W
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



Technical Specifications

Environmental

Temperature ³	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 ⁴	15g peak acceleration, 11msec	30g peak acceleration, 11msec		
Vibration (5-2000 Hz) ⁴	.006" peak to peak displacement, 1.0g maximum acceleration	.015" peak to peak displacement, 2.5g maximum acceleration		
Altitude ⁵	Sea level to 10,000 feet	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 s CFR 111.01-15 (d) for offshore electrical systems. ⁴ Shock & Vibration specifications established with Solid State drives and no rotating media. ⁵ Altitude specification is established by using all internal component specifications. 			

Compliance

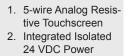
NEMA Rating	NEMA 4/4X/12, IP66
FCC	47 CFR, Part 15, Class A
EU CE Marking	CE, EN 55022: Class A, EN 61000-3-3, EN 61000-6-2, IEC 60950-1
IECEx Compliance	UL 16.0058X
ATEX Compliance	ATEX Zone 2/22 approved when installed in an approved enclosure as described in the certificate DEMKO 14 ATEX 1374X
Agency Approvals *	UL508 Listed, ANSI/ISA 12.12.01-2012, cUL Listed CSA C22.2, #142, cUL Listed CSA 22.2, #213
	* iPC-Series (w/ N2800): 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

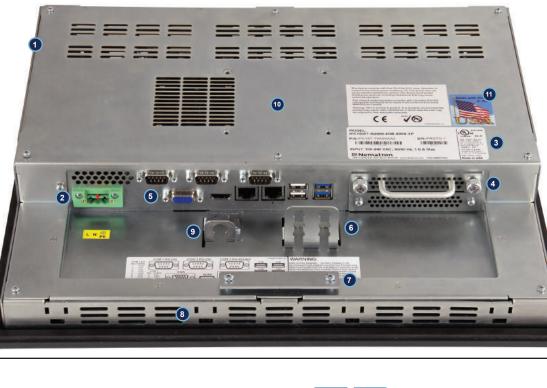
Front Panel Options

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

Features



- Supply 3. IECEx, ATEX ZONE 2/22, UL/cUL 508, Class I Div 2, CE Approval Label
- 4. Easily Removable SATA Solid State Drive
- 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



IEC



⟨€x*⟩* **(**€

Base unit configuration: iPCxx00T-N2800-4GB-240SS-W7-DC-IECEx, where xx = 12, 15, 17, or 19 (for display size), includes a touchscreen, Intel ATOM N2800 processor, 4 GB DRAM, 240 GB SATA Solid State Drive, isolated 24 VDC power supply, and Windows 7 Professional (32-bit).

		iPC1500 T -N	2800	-DC	-IECEx
iPC1500T-N2800- IECEx	Display Size: —— ¹⁵⁰⁰ Input Options: ——	15.0" XGA LCD			
	I	louchscreen			
	DRAM:	4 GB DRAM			
	Hard Drive: ——				
	-240SS -480SS -960SS	240 GB SATA Solid State Drive 1 480 GB SATA Solid State Drive 1 960 GB SATA Solid State Drive 1			
	Operating System -W7 -W7U -NOS	Windows 7 Professional (32-bit) Windows 7 Ultimate (32-bit) No OS installed			
	Power Supply: — -DC	24 Volt DC			
	Front Panel: —— blank -NL -SS	Powder Coated Aluminum Powder Coated Aluminum w/o Logo Machined 304 Stainless Steel			

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

