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Nematron iPC1200-IECEx Industrial PC

12.1" High-Performance, Panel Mount, Touchscreen Computer

IECEx / ATEX Zone 2/22 Approved

Intel® Processing

LED Backlit Display

Analog Resistive Touchscreen

Solid State Drive Storage

NEMA 4/4X/12, IP66

55°C Operating Temp

64-bit Application Support





DS iPC1200-IECEx, Rev B

















Made in USA

Standard Configuration

- 12.1" SVGA Color TFT LED backlit display
- High Performance / Low Power Processor options to choose from:
 - Intel® Dual Core Celeron® P4500 (1.86 GHz, 2 M cache, 2 Threads)
 - Intel® i5 Dual Core 520M (2.4 GHz, 3 M cache, 4 Threads)
 - Intel® i7 Dual Core 620M (2.66 GHz, 4 M 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
 - 6 USB 2.0 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
- 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 (64-bit) or No OS installed optional
- 2-year Warranty



Technical Specifications



Physical

Overall Dimensions 10.475" x 12.9" x 3.42" (266.1mm x 327.7mm x 86.75mm)

Panel Mounting Depth 3.165" (80.4mm)

Cutout Dimensions 9.68" x 12.10" (245.9mm x 307.3mm)

Weight 10.5 lbs (4.76kg)

Shipping Weight 14.0 lbs (6.35kg)

Option Weight (SS)* +2.5 lbs (1.13kg)*

* Additional weight for Stainless Steel option.

Display

Display Diagonal 12.1" (307.34mm)

Display Size H x V 9.69" x 7.26" (246.0mm x 184.5mm)

Native Resolution SVGA, 800 x 600

Brightness 450 nit

Contrast Ratio 600:1

Horz/Vert Viewing Angle 140°/120°

Backlight Life / Typical 50,000 hrs

Touchscreen 5-wire Analog Resistive

Processor

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

Type & Processor Celeron P4500 i5 Dual Core i7 Dual Core Intel Dual Core Celeron P4500 Intel i5 Dual Core 520M Intel i7 Dual Core 620M Core Speed 1.86 GHz 2.4 GHz 2.66 GHz Threads / Bus/Core 2/14 4 / 18 4/20 L2 Cache 2MB 4MB 4MB Intel HM55 (BD82HM55 PCH) Intel HM55 (BD82HM55 PCH) Chipset Intel HM55 (BD82HM55 PCH)

Chipset Intel HM55 (BD82HM55 PCH) Intel HM55 (BD82HM55 PCH) Intel HM55 (BD82HM55 PCH) Video RAM 64 MB System RAM Base 1 64 MB System RAM Base 1 64 MB System RAM Base 1 Fethernet Controller Realtek 10/100/1000 (2 ports) Realtek 10/100/1000 (2 ports)

Storage & Peripherals

Operating System Windows 7 Professional (32-bit); Optional Windows 7 Ultimate (64-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, (6) USB 2.0, (2) RS-232, (1) RS-485/422, (1) Analog Video Port (supports dual video with integrated display),

(2) Ethernet 10/100/1000 Ports

Power

Input Power 70W

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 ² Operating 0°C to 55°C

Humidity 20% to 80% RH, noncondensing

Shock ³ 15g peak acceleration, 11msec

Vibration (5-2000 Hz) 3 .006" peak to peak displacement,

1.0g 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.

Non-operating

20% to 80% RH, noncondensing

.015" peak to peak displacement,

30g peak acceleration, 11msec

2.5g maximum acceleration

-20°C to 70°C

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 2/22 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: Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F & G; Class III; Temp. Code: T6, 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. 5-wire Analog Resistive Touchscreen
- Integrated Isolated 24 VDC Power Supply
- 3. IECEx, ATEX ZONE 2/22, UL/cUL 508, Class I Div 2, CE Approval Label
- 4. Easily Removable SATA Solid State Drive
- 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 iPC1200 75mm
- 11. Made with Pride in the USA





Standard 2-year warranty - Covers parts and service











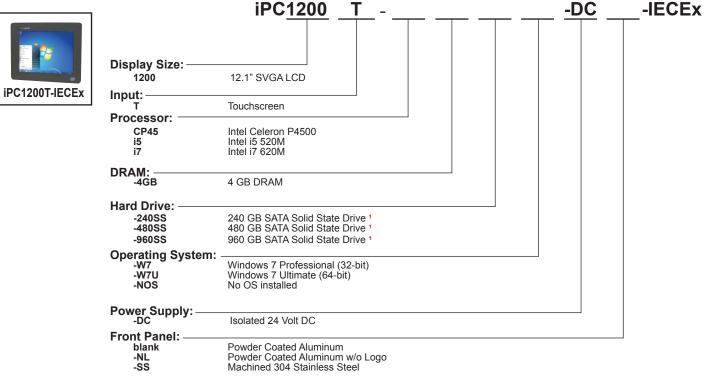


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Order Number Generation

Base unit configuration: iPCxx00T-CP45-4GB-240SS-W7-DC-IECEx, where xx = 12, 15, 17, or 19 (for display size), includes a touchscreen, Intel Celeron P4500 processor, 4 GB DRAM, 240 GB SATA Solid State Drive, isolated 24 VDC power supply, and Windows 7 Professional (32-bit).



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

