

Nematron® ePC121T



12.1" Low-Cost, Fanless, Panel Mount Industrial Computer

ePC121T Overview

The Nematron ePC121T is a high performance, fanless, panel mount computer specifically designed to be installed as an automation control interface. The ePC121T is widely used in many vertical manufacturing industries and by industrial OEMs.

Why Nematron?

- Internationally certified
- Unprecedented uptime
- Best in class lead times to meet your schedules and deadlines
- Long product lifecycles that help reduce your cost of ownership

Target Industries

- Automotive
- Food & beverage
- Packaging
- Power generation

Rugged, Superior Quality

- All aluminum construction
- Analog resistive touchscreen
- Solid state drives - no moving parts
- Intel® high performance processor

Safety-Tested Reliability

- UL/cUL 60950 approved
- CE approved
- Temperature and humidity tested to 50°C
- IP65 front panel
- 2-year warranty





Nematron® ePC121T

PHYSICAL SPECIFICATIONS

Dimensions (inch/mm)	12.56"W x 9.65"H x 2.04"D 319mm x 245mm x 52mm
Cutout (inch/mm)	11.92" x 9.02" / 303mm x 229mm
Weight	3.9 lbs. (1.8kg)

DISPLAY SPECIFICATIONS

LCD Size	12.1"
Resolution	800 x 600
Display Colors	16.2M
Brightness	450 cd/m ² (NIT) Standard
Viewing Angle	±160° Horizontal / ±140° Vertical
Touchscreen	Resistive
Contrast ratio	800:1 (Typical)
Backlight Life	50,000 Hours

PROCESSOR

Type & Processor	Intel® Quad Core Celeron N2930
Core Speed	Up to 2.16 GHz
L2 Cache	2MB
Chipset	Intel Bay Trail-M

POWER

DC Input Power	9-36 VDC, 4.5A-1.5A (Must be Powered by a Listed ITE LPS Power Source)
AC Power Supply	External AC-to-DC Adapter (Universal AC Input)

STORAGE & PERIPHERALS

Operating System	Windows® 7 Professional (32-bit); Windows 7 Ultimate (64-bit), Windows 10 IoT Enterprise (32-bit or 64-bit) (optional)
DRAM	4GB (On-board DDR3L 1333MHz Dual Channel)
Standard Storage	150GB Solid State Drive; 240GB or 480GB Solid State Drives (optional)
Available I/O	(1) HDMI Port, (2) USB 2.0, (2) USB 3.0, (2) RS-232, (1) RS-232/422/485, (2) Gigabit Ethernet 10/100/1000, (1) Audio Out

ENCLOSURE

Material	Die Cast Aluminum Enclosure, IP65 Compliant Aluminum Front Panel (when installed in an appropriate enclosure)
Mounting	Panel, VESA 100 x 100

COMPLIANCE

Compliance	CE, FCC Class A
Safety Agency	UL/cUL 60950 (ordinary locations) Indoor Use only

ENVIRONMENTAL

Operating Temperature	-0°C ~ 50°C
Storage Temperature	-20°C ~ 60°C
Humidity	10%~90% (Non-Condensing)

PART NUMBER CONFIGURATOR

ePC121T-N2930-4GB-150SS-W7

Display Size:	121T	12.1" Analog Resistive Touch
Processor:	-N2930	Intel Celeron N2930 Processor (Fanless)
DRAM:	-4GB	4GB DRAM
Internal Storage:	-150SS -240SS -480SS	150 GB internal Solid State Drive 240 GB internal Solid State Drive 480 GB internal Solid State Drive
Operating System:	-W7 -W7U -W1032 -W1064	Windows 7 Professional (32-bit) Windows 7 Ultimate (64-bit) Windows 10 IoT Enterprise (32-bit) ¹ Windows 10 IoT Enterprise (64-bit) ¹

¹ Windows 10 IoT Enterprise is the OEM equivalent to Windows 10 Professional.

