

# Nematron® ePC190T

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



## ePC190T Overview

The Nematron ePC190T is a high performance, fanless, panel mount computer specifically designed to be installed as an automation control interface. The ePC190T 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**  
by **COMARK**





# Nematron® ePC190T

## PHYSICAL SPECIFICATIONS

Dimensions (inch/mm)	18.42"W x 14.96"H x 2.55"D 468mm x 380mm x 64.8mm
Cutout (inch/mm)	17.63" x 14.17" / 448mm x 360mm
Weight	13.00 lbs. (5.9kg)

## DISPLAY SPECIFICATIONS

LCD Size	19.0"
Resolution	1280 x 1024
Display Colors	16.7M
Brightness	350 cd/m <sup>2</sup> (NIT) Standard
Viewing Angle	±170° Horizontal / ±160° Vertical
Touchscreen	Resistive
Contrast ratio	1000:1 (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

### ePC190T-N2930-4GB-150SS-W7

<b>Display Size:</b>	190T	19.0" Analog Resistive Touch
<b>Processor:</b>	-N2930	Intel Celeron N2930 Processor (Fanless)
<b>DRAM:</b>	-4GB	4GB DRAM
<b>Internal Storage:</b>	-150SS -240SS -480SS	150 GB internal Solid State Drive 240 GB internal Solid State Drive 480 GB internal Solid State Drive
<b>Operating System:</b>	-W7 -W7U -W1032 -W1064	Windows 7 Professional (32-bit) Windows 7 Ultimate (64-bit) Windows 10 IoT Enterprise (32-bit) <sup>1</sup> Windows 10 IoT Enterprise (64-bit) <sup>1</sup>

<sup>1</sup> Windows 10 IoT Enterprise is the OEM equivalent to Windows 10 Professional.

