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# Nematron ePC19T Lite Series Industrial PC

19.0" Low-Cost, Fanless Flat Panel Mount Industrial PCs

Intel® Fanless Processing

**LED Backlit Display** 

**Analog Resistive Touchscreen** 

**Solid State Drive Storage** 

**UL/cUL Ordinary Locations** 

**NEMA 4/4X/12, IP65** 

Windows 7 or 10 OS





DS ePC19T Lite, Rev B









Made in USA

#### **Overview**

The ePC "Lite" Series is Nematron's economy line of industrial PCs, equipped with standard features to handle applications where a full offering of traditional features are not required. The "Lite" Series is offered at a significantly lower cost than the popular iPC-Series, while still providing the reliability, ruggedness and support that come with

Nematron products. The ePC "Lite" Series comes standard with a Fanless Intel Quad Core Celeron N2930 fanless CPU and solid state drive storage, eliminating many of the reliability issues associated with industrial PCs due to rotating media or CPU cooling fans.

# **Standard Configuration**

- 19.0" SXGA Color TFT LED-backlit Display
- High Performance/Very Low Power Fanless Processor
  - Intel® Quad Core Celeron N2930 (1.83 GHz (bursts to 2.16 GHz), 2 MB Cache, 4 Cores, 4 Threads)
- 4 GB DRAM (8 GB optional)
- 240 GB Solid State Drive (480 GB or 1TB SATA Hybrid Hard Drive optional)
- 5-wire Analog Resistive Touchscreen
- I/O Connectivity
  - One 10/100/1000 Ethernet port
  - Two USB 2.0 ports

- Two USB 3.0 Ports
- One RS-232 serial port
- Audio in/out
- Additional Analog and HDMI ports (supports dual video modes with integrated LCD)
- NEMA 4/4x/12 powder coated aluminum front panel (optional no logo front panel)
- Optional NEMA1 powder coated rear enclosure (vented, not water or dust proof)
- Ultra-Thin panel mounting depth of 2.7"
- External 100-240 VAC power

supply included

- Regulated 12 VDC, 3.75 A
   Max output (can also be
   powered by other Listed ITE power
   supplies or Class 2 power sources)
- 0° to 50°C operational temperature rating
- UL and cUL Ordinary Locations Listed
- FCC & CE compliant
- Windows® 7 Professional 32-bit
  - Windows 7 Ultimate 64-bit or Windows 10 Enterprise IoT 32-bit or 64-bit optional
- 2-year Warranty

## **Technical Specifications**



#### **Physical**

Overall Dimensions 15.70" x 18.66" x 2.95" (398.8mm x 474.0mm x 75.0mm)

Panel Mounting Depth 2.7" (68.6mm)

Cutout Dimensions 14.90" x 17.75" (378.5mm x 450.9mm)

Weight 22.5 lbs (10.21kg)
Shipping Weight 27.5 lbs (12.47kg)

#### Display

Display Diagonal 19.0" (482.6mm)

Display Size H x V 14.82" x 11.85" (376.3mm x 301.1mm)

Native Resolution SXGA, 1280 x 1024

Brightness 300 nit

Contrast Ratio 2000:1

Horz/Vert Viewing Angle 178°/178°

Backlight Life / Typical 50,000 hrs

Touchscreen 5-wire Analog Resistive

#### Processor

Type & Processor Celeron N2930

Intel Quad Core Celeron N2930 (fanless)

Core Speed 1.83 GHz (with bursts up to 2.16 GHz)

Threads / Core 4 / 4 L2 Cache 2MB

Chipset Intel Bay Trail-M

Video RAM Intel Gen7 Graphics DX 11, OGL3.2

Ethernet Controller Realtek Gigabit 10/100/1000 (1 port)

#### Storage & Peripherals

Operating System Windows 7 Professional (32-bit); optional Windows 7 Ultimate (64-bit), Windows 10 Enterprise IoT (32-bit or 64-bit)

DRAM 4GB Single Module (204-pin DDR3 SO-DIMM, non-ECC, unbuffered, 1066 MHz); Optional 8GB <sup>1</sup> max

Standard Storage 240GB Solid State Drive 2; Optional 480GB Solid State Drive 2 or 1TB SATA Hybrid Hard Drive 3

Available I/O (1) HDMI Port, (2) USB 2.0, (2) USB 3.0, (1) RS-232, (1) Analog Video Port (supports dual video), (1) Ethernet 10/100/1000

Port, (2) Audio In/Out Ports

<sup>1</sup>8GB DRAM only available when configured with Windows 7 Ultimate (-W7U) 64-bit or Windows 10 Enterprise IoT (-W1064) 64-bit operating system.

Internal Solid State Drives installed in the ePC-Lite Series only fall under the system warranty and do not carry any extra part warranty.

<sup>3</sup> 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 40W

AC Power Supply 100-240 VAC, 47-63 Hz, 1.5 A Maximum DC Input Voltage 12 VDC, Regulated ± 5%, 3.85 A Maximum <sup>4</sup>

<sup>4</sup> Output of included AC power supply. Can also be powered by other Listed ITE power supply or Class 2 Power sources.



### **Technical Specifications**

#### **Environmental**

Operating
0°C to 50°C

Humidity

Shock 6

Vibration (5-2000 Hz) 6

Operating
0°C to 50°C

-20°C to 60°C

20% to 80% RH, noncondensing
20% to 80% RH, noncondensing
30g peak acceleration, 11msec

005" peak to peak displacement,
015" peak to peak displacement,

1.0g maximum acceleration 2.5g maximum acceleration

Altitude <sup>7</sup> Sea level to 10,000 feet Sea level to 40,000 feet

<sup>5</sup> 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.

<sup>6</sup> Shock & Vibration specifications established with Solid State drives and no rotating media.

<sup>7</sup> Altitude specification is established by using all internal component specifications.

#### Compliance

NEMA Rating NEMA 4/4X/12, IP65

Enclosure Rating NEMA 1 (vented, not dust or water proof, for stand-alone VESA mounting)

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, cUL Listed CSA C22.2, #142

8 NEMA 1 only, not recommended for environments with high levels of moisture and/or particulate matter.

#### **Front Panel**

Front Panel Options Powder-Coated Aluminum Front Panel; with No Logo

#### **Features**

- 5-wire Analog Resistive Touchscreen
- Power Input: 12VDC input supplied by Listed ITE power supply or Class 2 source
- UL 508/cUL Ordinary Locations only, CE Approval Label
- 4. Optional NEMA 1
  Powder Coated Rear
  Enclosure
- 5. I/O Connectivity
- 6. Panel Mounting via Clips
- 7. VESA Mounting ePC19T 100mm
- 8. Made with Pride in the USA







#### **Optional NEMA 1 Powder Coated Rear Enclosure**

- Vented, Not Water or Dust Proof
- Shown with optional mounting arm (sold separately)



Standard 2-year warranty

- Covers parts and service









### **Order Number Generation**

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-EN

**Base unit configuration: ePC19T-N2930-4GB-240SS-W7**, includes a 15" XGA TFT display with touchscreen, fanless Intel Quad Core Celeron N2930, 4 GB DRAM, 240 GB internal solid state drive, Windows 7 Professional (32-bit), and External AC Power Supply.



<i>e</i> PC <u>19T</u> -N2930	
Display Size:	19.0" SXGA LCD
DRAM: -4GB -8GB	4 GB DRAM 8 GB DRAM <sup>1</sup>
Internal Storage: -240SS -480SS -HD	240 GB internal Solid State Drive <sup>2</sup> 480 GB internal Solid State Drive <sup>2</sup> 1TB (minimum) SATA Hybrid Hard Drive <sup>3</sup>
Operating System -W7 -W7U -W1032 -W1064	Windows 7 Professional (32-bit) Windows 7 Ultimate (64-bit) Windows 10 Enterprise IoT (32-bit) Windows 10 Enterprise IoT (64-bit)
Front Panel: —— blank -NL	Powder Coated Aluminum Powder Coated Aluminum w/o Logo
Enclosure: 4 —	

<sup>18</sup> GB DRAM only available when configured with Windows 7 Ultimate (-W7U) 64-bit or Windows 10 Enterprise IoT (-W1064) 64-bit operating systems.

Panel Mount front panel w/o rear enclosure

Vented rear enclosure for stand-alone VESA mounting

<sup>&</sup>lt;sup>2</sup> Internal Solid State Drives installed in the ePC-Lite Series only fall under the system warranty and do not carry any extra "part" warranty.

<sup>&</sup>lt;sup>3</sup> 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.

<sup>&</sup>lt;sup>4</sup> NEMA 1 only, not recommended for environments with high levels of moisture and/or particulate matter.