



DS ePC-Lite, Rev D

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

ePC-Lite Series

Embedded Low-Cost & Fanless TFT Flat Panel Industrial PCs

NEW!



ePC19T
SXGA



nPC10
Node



ePC15T
XGA

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 an Intel N2800 fanless CPU and 30GB on-board mSATA storage, eliminating many of the reliability issues associated with industrial PCs due to rotating media or CPU cooling fans.

Standard Features

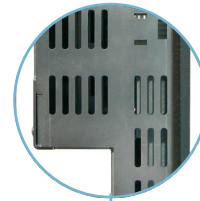
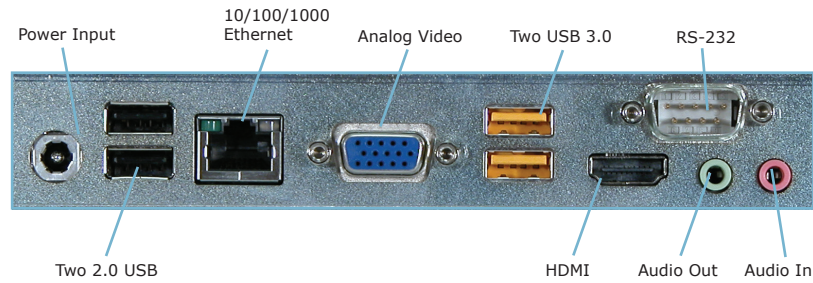


- Choice of: 15.0" XGA & 19.0" SXGA Color TFT LED-backlit Displays ¹
- High Performance/ Very Low Power Fanless Processor
 - Intel® Dual Core ATOM N2800 (1.86 GHz, 1 MB Cache, 4 Threads)
- 2 GB DRAM (4 GB optional)
- Internal onboard 30 GB mSATA Solid State Drive (60 GB optional)
 - Replaces need for Traditional drives or Solid State drives
- 5-wire Analog Resistive Touchscreen ¹
- 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 ¹ (optional no logo front panel)
- Optional NEMA1 powder coated rear enclosure ¹ (vented, not water or dust proof)
- Ultra-Thin panel mounting depth of 2.4" on ePC15T (2.7" - ePC19T)
- External 100-240 VAC power supply included
 - Regulated 12 VDC, 3.75 A Max output (ePC15T); 3.85 A Max output (ePC19T); 1.9 A (nPC10) (can also be powered by other Listed ITE power supplies or Class 2 power sources)
- UL and cUL Ordinary Locations Listed
- FCC, CE, & RoHS compliant
- Windows® 7 Professional 32-bit
 - Windows XP Professional 32-bit optional
- 2-year Warranty

¹ Not applicable on the nPC10 Node Industrial PC.

Features & Benefits

I/O Connectivity (nPC10 Node I/O shown below)



Ultra-thin, extremely compact design

- 2.4" Mounting Depth (15")
- 2.7" Mounting Depth (19")



5-wire Analog Resistive Touchscreen

Made with Pride in the USA

UL 508, cUL, CE, & RoHS Approvals

Intel Fan-less N2800 CPU

Power Input

- 12 VDC input supplied by Listed ITE power supply or Class 2 source



Powder Coated Aluminum Front Panel

- No logo front panel option



VESA Mounting

- ePC15T: 75mm
- ePC19T: 100mm



NEMA Panel Mounting via Clips



Optional NEMA 1 Powder Coated Rear Enclosure

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



High Performance/ Very Low Power Fanless Processor

- Intel® Dual Core ATOM N2800 (1.86 GHz, 1 MB Cache, 4 Threads)



External 100-240 VAC Power Supply

- ePC15T: Regulated 12 VDC, 3.75 A Max output
- ePC19T: Regulated 12 VDC, 3.85 A Max output
- nPC10: Regulated 12 VDC, 1.9 A Max output



Meet all RoHS Hazardous Safety Standards.



Standard 2-year warranty

- Covers parts and service



Technical Specifications



Physical	ePC15T	ePC19T	nPC10
Overall Dimensions <i>H x W x D</i>	12.80" x 15.80" x 2.65" (325.1mm x 401.3mm x 67.3mm)	15.70" x 18.66" x 2.95" (398.8mm x 474.0mm x 75.0mm)	7.750" x 7.750" x 1.30" (196.8mm x 196.8mm x 33.02mm)
Overall Dimensions w/ Mounting Brackets	-	-	7.750" x 9.06" x 1.61" (196.8mm x 230.12mm x 40.89mm)
Panel Mounting Depth	2.4" (61.0mm)	2.7" (68.6mm)	-
Cutout Dimensions <i>H x W</i>	12.00" x 15.00" (305.0mm x 381.0mm)	14.90" x 17.75" (378.5mm x 450.9mm)	-
Weight	14.0 lbs (6.35kg)	22.5 lbs (10.21kg)	2.7 lbs (1.2 kg)
Shipping Weight	19.0 lbs (8.62kg)	27.5 lbs (12.47kg)	4.2 lbs (1.9 kg)
Display	ePC15T	ePC19T	nPC10
Display Diagonal	15.0" (381.0mm)	19.0" (482.6mm)	-
Display Size <i>Active Area H x V</i>	11.97" x 8.98" (304.0mm x 228.1mm)	14.82" x 11.85" (376.3mm x 301.1mm)	-
Native Resolution	XGA, 1024 x 768	SXGA, 1280 x 1024	-
Brightness / Contrast Ratio	400 nit / 600:1	300 nit / 2000:1	-
Horz/Vert Viewing Angle	140°/120°	178°/178°	-
Backlight Life / Typical	50,000 hrs	50,000 hrs	-
Electrical			
AC Power Supply	100-240 VAC, 47-63 Hz, 1.1 A Maximum	100-240 VAC, 47-63 Hz, 1.5 A Maximum	100-240 VAC, 47-63 Hz, 1.1 A Maximum
DC Input Voltage/Max Current	12 VDC, Regulated ± 5%, 3.75 A Maximum ¹	12 VDC, Regulated ± 5%, 3.85 A Maximum ¹	12 VDC, Regulated ± 5%, 1.9 A Maximum ¹
		¹ Output of included AC power supply. Can also be powered by other Listed ITE power supply or Class 2 Power sources.	
Typical* Power	ePC15T	ePC19T	nPC10
Input Power	30W	50W	20W
		* Typical power is measured per model/per processor with all possible I/O ports functioning.	

COMMON SPECS

Processor Options

Type & Processor	Intel Dual Core ATOM N2800
Core Speed	1.86 GHz
Cores / Threads	2 / 4
L2 Cache	1MB
Chipset	Intel NM10 Express
Graphics Controller	Integrated Intel GMA 3650 ²
Ethernet Controller	Intel 82574L Gigabit 10/100/1000 (1 port)
	² Video Memory is allocated as needed with Intel DVMT (Dynamic Video Memory Technology).

Memory & I/O

DRAM	2GB Single Module (204-pin DDR3 SO-DIMM, non-ECC, unbuffered, 1066 MHz); Optional 4GB max
Standard Storage	30GB mSATA; Optional 60GB mSATA
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

Touchscreen

Technology	5-wire Analog Resistive (Not applicable on the nPC10 model)
------------	---

Operating System

Standard OS	Windows 7 Professional (32-bit); Optional Windows XP Professional (32-bit)
-------------	--

Environmental

	Operating	Non-operating
Temperature ³ / Humidity	0°C to 50°C / 20% to 80% RH, noncondensing	-20°C to 60°C / 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).

⁴ Shock & Vibration specifications established with Solid State drives and no rotating media. ⁵ Altitude specification is established by using all internal component specifications.

Agency Approvals

Front Panel NEMA Rating	NEMA 4/4X/12, IP65
Enclosure Rating ⁶	NEMA 1 (vented, not dust or water proof, for stand-alone VESA mounting)
FCC	47 CFR, Part 15, Class A
EU CE Marking Compliance	CE, EN 55022: Class A, EN 61000-3-3, EN 61000-6-2, IEC 60950-1, RoHS compliant
Safety Agency Approvals [*]	UL508 Listed, cUL Listed CSA C22.2, #142
	[*] NEMA 1 only, not recommended for environments with high levels of moisture and/or particulate matter.

Options

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

Order Number Generation

Base unit configuration: ePC15T-N2800-2GB-30mS-W7, includes a 15" touchscreen, Intel Dual Core ATOM N2800, 2 GB DRAM, 30 GB On-board mSATA storage, Windows 7 Professional, and External AC Power Supply.



ePC15T



ePC19T

NEW!

ePC -N2800

Display Size:	_____	_____	_____	_____	_____	_____
15T	15.0" XGA LCD					
19T	19.0" SXGA LCD					
DRAM:	_____	_____	_____	_____	_____	_____
-2GB	2 GB DRAM					
-4GB	4 GB DRAM					
On-board Storage:	_____	_____	_____	_____	_____	_____
-30mS	30 GB On-board mSATA Storage					
-60mS	60 GB On-board mSATA Storage					
Operating System:	_____	_____	_____	_____	_____	_____
-W7	Windows 7 Professional (32-bit)					
-XP	Windows XP Professional (32-bit)					
Front Panel:	_____	_____	_____	_____	_____	_____
blank	Powder Coated Aluminum					
-NL	Powder Coated Aluminum w/o Logo					
Enclosure: ¹	_____	_____	_____	_____	_____	_____
blank	Panel Mount front panel w/o rear enclosure					
-EN	Vented rear enclosure for stand-alone VESA mounting					

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

Base unit configuration: nPC10-N2800-2GB-30mS-W7, includes Intel ATOM Dual Core N2800, 2 GB DRAM, 30 GB On-board mSATA Storage, Windows 7 Professional, and External AC Power Supply.



nPC10

NEW!

nPC10-N2800

Storage:	_____	_____	_____	_____	_____	_____
-2GB	2 GB DRAM					
-4GB	4 GB DRAM					
Storage:	_____	_____	_____	_____	_____	_____
-30mS	30 GB On-board mSATA Storage					
-60mS	60 GB On-board mSATA Storage					
Operating System:	_____	_____	_____	_____	_____	_____
-W7	Windows 7 Professional (32-bit)					
-XP	Windows XP Professional (32-bit)					

Contact Information

Headquarters - Nematron Corporation
 5840 Interface Drive, Suite 100
 Ann Arbor, MI 48103 USA
 Tel: 1.734.214.2000
 Fax: 1.734.994.8074
 Email: info@nematron.com

