Nematron

*e*PC15T "Lite"

15.0" Embedded Low-Cost & Fanless TFT Flat Panel Industrial PC

Made with Pride in the USA

The Nematron ePC15T is a low cost version of the popular ePC-Series. It is intended for applications where low cost is important and some of the traditional ePC-Series features are not required. This "Lite" version is offered at a significantly lower cost than the popular ePC1500T, while still providing the reliability and 2-year warranty of the ePC-Series. The ePC15T comes standard with an Intel N270 fanless CPU board and an Intel solid state drive, eliminating many of the reliability issues associated with industrial PCs. In addition its' compact profile and high performance make this unit ideal for many space limited applications.
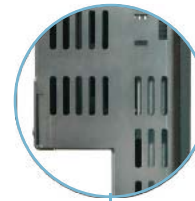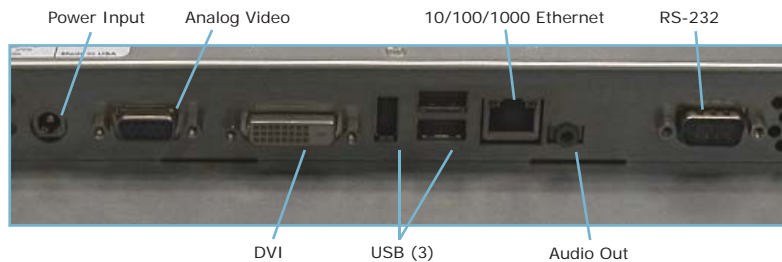
Now Standard with 2 GB DRAM

Standard Features

- Intel Inside
  - CPU board and processor
  - Solid state drive
- 15.0" XGA Color TFT LCD Display, 1024 x 768
- High Performance/ Very Low Power Fanless Processor
  - Intel® ATOM N270
  (1.6 GHz, 512 K Cache, 533 MHz bus)
- 2 GB DRAM
- Intel 40 GB SATA Solid State Drive (internal)
- 5-wire Analog Resistive Touchscreen

- I/O Connectivity
  - One 10/100/1000 Ethernet port
  - Three USB 2.0 ports
  - One RS-232 serial port
  - Audio out
  - Additional Analog and Digital Video 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 2.4"

- External 100-240 VAC power supply included
  - Regulated 12 VDC, 3.75 A Max output (can also be powered by other Listed ITE power power supply or Class 2 power source)
- UL & cUL
- FCC, CE, & RoHS compliant
- Windows® XP Professional SP3 (Windows 7 Professional optional)
- 2-year Warranty

Features & Benefits

I/O Connectivity

Power Input · Analog Video · 10/100/1000 Ethernet · RS-232

DVI · USB (3) · Audio Out

Ultra-thin, extremely compact design
- 2.4" Mounting Depth

Made with Pride in the USA

UL 508, cUL, CE, & RoHS Approvals

5-wire Analog Resistive Touchscreen

Intel Inside
- CPU board & processor
- Solid state drive

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
- 75mm

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® ATOM N270
  (1.6 GHz, 512 K Cache, 533 MHz bus)

External 100-240 VAC Power Supply
- Regulated 12 VDC, 3.75 A Max output (ships with ePC15T)

Standard 2-year warranty
- Covers parts and service

RoHS COMPLIANT Meet all RoHS Hazardous Safety Standards.

CE · UL · UL

Technical Specifications

PERFORMANCE

Chipset	Intel 9465GSE + ICH7M
Video	Integrated in system chipset
Video RAM	8 MB - 128 MB (system RAM)
Type/Processor	Intel ATOM N270
Core Speed	1.6 GHz
Front Side Bus	533 MHz
L2 Cache	512 K
Ethernet Controller	Realtek

DISPLAY

	ePC15T Lite
Display Diagonal	**15.0"** (381.0mm)
Display Sizes (Active Area H x V)	11.97" x 8.98" (304.0mm x 228.1mm)
Native Resolution	XGA, 1024 x 768
Displayable Colors	16M
Brightness, Typical	250 Nit
Contrast Ratio, Typical	700:1
Horizon/Vertical View Angle, CR>5, Typical	170°/160°
Backlight Life, Typical	50,000 hrs

TOUCH SCREEN

Touch Screen Technology	5-wire Analog Resistive
Resolution	4096 x 4096
Positional Accuracy (Maximum Error)	0.18" 4.57mm
Positional Accuracy (Standard Deviation of Error)	< 0.08" (< 2.0 mm)
Expected Life	>35,000,000 Activations

MEMORY & STORAGE

DRAM Type	200-pin DDR2 SO-DIMM, non-ECC, un-buffered
DRAM Bus Speed	533 MHz
DRAM Maximum	2 GB Single Module
Solid State Drive	Intel 40 GB (Internal)
Drive Interface	2.5", SATA II

ELECTRICAL

DC Input Voltage	12 VDC
DC Input Current	3.75 A Max
AC Power Supply	100-240 VAC, 47-63 Hz [1]
AC Input Current	1.1 A Maximum
Input Power	30 W Typical [2]

[1] Output of included AC power supply. Can also be powered by other Listed ITE power supply or Class 2 Power sources.

[2] Typical Power is measured without any additional I/O or expansion options. Any additional I/O installed during application can increase this value.
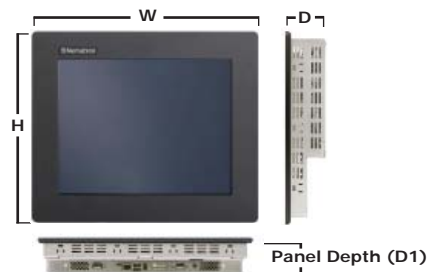
AGENCY

Front Panel NEMA Rating	NEMA 4/4X/12
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 22.2, #142

ENVIRONMENTAL

	Operating	Non-operating
Temp.	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	
Shock [3]	15g peak acceleration, 11msec	30g peak acceleration, 11msec
Vibration [3] (5-2000 Hz)	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration
Altitude [4]	Sea level to 10,000 feet	Sea level to 40,000 feet

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

MISCELLANEOUS

Warranty	2 years
Available Option	No logo front panel
Ships With	External Power supply with standard US IEC Power Cord, Mounting Hardware, Drivers, & Manual

PHYSICAL

	ePC15T Lite
Overall Dimensions (H x W x D)	12.80" x 15.80" x 2.65" (325.1mm x 401.3mm x 67.3mm)
Panel Mounting Depth [5] (D1)	2.4" (60.9mm)
Cutout Dimensions (Height x Width)	12.00" x 15.00" (305.0mm x 381.0mm)
VESA Mount Pattern (M4 Threads)	75x75mm (on rear)
Weight	14.0 lbs (6.35kg)
Shipping Weight	19.0 lbs (8.62kg)

[5] Does not apply to -EN option.

CUTOUT DIMENSIONS [5]

ePC15T Lite

15.00" (Width)
381.0mm

12.00" (Height)
305.0mm

DIMENSIONS

Panel Depth (D1)

W	15.8" (401.3mm)
H	12.8" (325.1mm)
D	2.65" (67.3mm)
D1 [5]	2.4" (60.9mm)

Order Number Generation

Base unit configuration: ePC15T-N270-2GB-40SS-XP, includes a touchscreen, Intel ATOM N270, 2 GB DRAM, 40 GB Solid State SATA Drive, Windows XP Professional, and External AC Power Supply.

*e*PC15T-N270-2GB-40SS ___ ___ ___

Operating System:

-XP	Windows XP Professional
-W7	Windows 7 Professional

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.

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