

ThinManager-Ready Nematron nPC20 Thin Client Node Hardware

ThinManager-Ready Thin Client

UL/cUL Class I Div 2 Approved

Compact Form Factor

Intel® Processing

4 GB DRAM

55°C Operating Temp

Mounting Options



Nematron
by COMARK

DS nPC20-TMR, Rev B

THINMANAGER



Made in USA

Standard Configuration

- ThinManager-Ready
- High Performance / Low Power CPU options:
 - Intel Dual Core ATOM E3826 Fanless Processor (1.46 GHz, 1MB Cache, 2 Threads)
- 4 GB DRAM
- I/O Connectivity:
 - Two Gigabit (10/100/1000) Ethernet ports
 - One RS-232/422/485 serial port
 - Two USB 3.0 ports
- Audio Out port
- Analog Video and HDMI ports (*Supports dual video*)
- 24 VDC (10-30 VDC) input
 - Optional AC power supply sold separately
- Simple, easy-to-use DIN Rail and Shelf Mounting Brackets included for mounting in multiple orientations
- UL and cUL Ordinary Locations Listed
- UL and cUL Hazardous Locations Listed
 - Class I Division 2, Groups A, B, C, & D when mounted in a NEMA enclosure
- 0°-55°C operational temperature rating
- FCC & CE Compliant
- 2-Year warranty

NOTE: The ThinManager-Ready configurations do not contain storage or operating system. They are configured for booting to a network via ThinManager protocol only. These are NOT standalone PCs. These products have been verified to be ThinManager LXi and ThinManager-Ready compatible. Comark does not supply ThinManager. For application support, please contact ThinManager directly at www.thinmanager.com.

Technical Specifications



Physical

Overall Dimensions	4.49" x 6.40" x 1.50" (114.05mm x 162.56mm x 38.1mm)
Overall Dimensions w/ Mounting Brackets	4.49" x 7.40" x 1.98" (114.05mm x 187.96mm x 50.29mm)
Weight	2.0 lbs (0.9 kg)
Shipping Weight	3.0 lbs (1.4 kg)

Processor

Type & Processor	ATOM E3826 (fanless) Intel Dual Core ATOM E3826
Core Speed	1.46 GHz
Threads	2
L2 Cache	1 MB
Chipset	Intel Baytrail-E3800 Series
Video RAM	Integrated Intel Gen7 Intel Graphics DX 11, OGL3.2 Max. Resolution: 1920 x 1200
Ethernet Controller	Realtek RTL8111G-CG 10/100/1000 (2 ports)

Storage & Peripherals

DRAM	4GB Single Module (204-pin DDR3 SO-DIMM, non-ECC, unbuffered, 1066 MHz)
Available I/O	(1) Analog Video Port, (1) HDMI Video, (1) Serial RS-232/422/485 Port, (2) USB 3.0 Ports, (2) Gigabit 10/100/1000 Ethernet Ports, (1) Audio Line Out port

Power

Input Power	15W
DC Input Voltage/Max Current	10-30 VDC, 1.5 A Maximum
Optional External AC Supply	100-240 VAC, 47-63 Hz, 1.1 A Maximum

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Technical Specifications

Environmental

	Operating	Non-operating
Temperature ¹	0°C to 55°C	-20°C to 70°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock ²	15g peak acceleration, 11msec	30g peak acceleration, 11msec
Vibration (5-2000 Hz) ²	.006" peak to peak displacement, 1.0g maximum acceleration	.015" peak to peak displacement, 2.5g maximum acceleration
Altitude ³	Sea level to 10,000 feet	Sea level to 40,000 feet

¹ 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.
² Shock & Vibration specifications established with Solid State drives and no rotating media.
³ Altitude specification is established by using all internal component specifications.

Compliance

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, ANSI/ISA 12.12.01-2012 5, cUL Listed CSA C22.2, #142, cUL Listed CSA 22.2, #213

* nPC20: Class I Division 2, Groups A, B, C, D; Temp. Code: T4A, when installed on a flat surface of a Type 1 enclosure.

Features

- 10-30 VDC Power Supply (AC optional, sold separately)
- UL/cUL 508, Class I Div 2, CE Approvals
- COM1 Serial Port RS-232/422/485
- Vented Chassis Design for Optimal Cooling
- Finned Heat Sync for Cooling
- Mounting Brackets
- Audio Line Out Port
- Two USB 3.0 Ports
- Dual Gigabit 10/100/1000 Ethernet Ports
- Dual Video Output - Analog VGA and HDMI ports allow video to be displayed on two monitors
- Rugged, exterior chassis
- Made with Pride in the USA

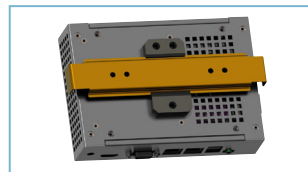


DIN Rail Mounting - Side or Back



Back or Side DIN Rail Mount Configurations (adjustable Din Rail clip included)

DIN Mounting on M-Series Monitors



MTG-DIN-nPC20
Din Rail section that allows the nPC20 to be mounted to all M-Series Monitors, including the M1500SRT monitor, using the 75mm or 100mm VESA mounting pattern on the rear of the units

Wall or Shelf Mount Brackets



Wall or Shelf Mounting Brackets included with unit



Standard 2-year warranty
- Covers parts and service



Order Number Generation

Base Unit Configuration: nPC20-E3826-4GB-24-TMR, includes ThinManager-Ready Nematron nPC20 with Intel Dual Core Fanless ATOM E3826 processor, No storage drive, No operating system, 4GB DRAM, and 24VDC power supply.



nPC20-E3826-4GB-24-TMR

Processors: _____
E3826 Intel Dual Core ATOM E3826 (fanless)

DRAM: _____
-4GB 4GB DRAM

Power Supply: _____
-24 10-30 VDC non-isolated input

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Accessories



PWR-AC-nPC20
100-240 VAC Power Supply for connection directly to the nPC20. nPC20 only rated for 50°C operation when using this power supply.

NOTE: NOT allowed for use in installations where Hazardous Locations Approvals are required.



MTG-DIN-nPC20
DIN Rail section for mounting to the 75 or 100 mm VESA pattern on the rear of all M-Series monitors.