

## NT24K-11FXE3-ST-80-PoE N-Tron NT24k® Networking Series



- Managed, Full Gigabit, Layer 2
- Power over Ethernet, PSE (PoE, PoE+)
- 8x 10/100/1000BaseT(X) - RJ45
- 3x 100BaseFX - SM, ST, 80 km
- Operating temperature -40 °C to +80 °C
- Extremely reliable: MTBF 2,000,000+ h
- Numerous certifications
- N-Ring™ - ring redundancy technology
- N-Link™ - multi-ring redundancy technology
- N-View™ - monitoring technology

<https://www.wachendorff-prozesstechnik.de/en/NT24K-11FXE3-ST-80-PoE>

### Description

The managed NT24K-11FXE3-ST-80-PoE offers 8x RJ45 and 3x fiber ports in a compact, hardened metal DIN rail housing.

The NT24K-11FXE3-ST-80-PoE is designed for the most demanding environments with features such as Power over Ethernet, full wire speed, extended shock and vibration resistance and a wide operating temperature range.

IGMP auto-configuration, port-based IEEE 802.1x with RADIUS remote server authentication and N-Ring™ technology for redundancy ensure rapid deployment and robust, secure network communication for applications in alternative energy, factory automation, transportation and water and wastewater treatment.

### Product details

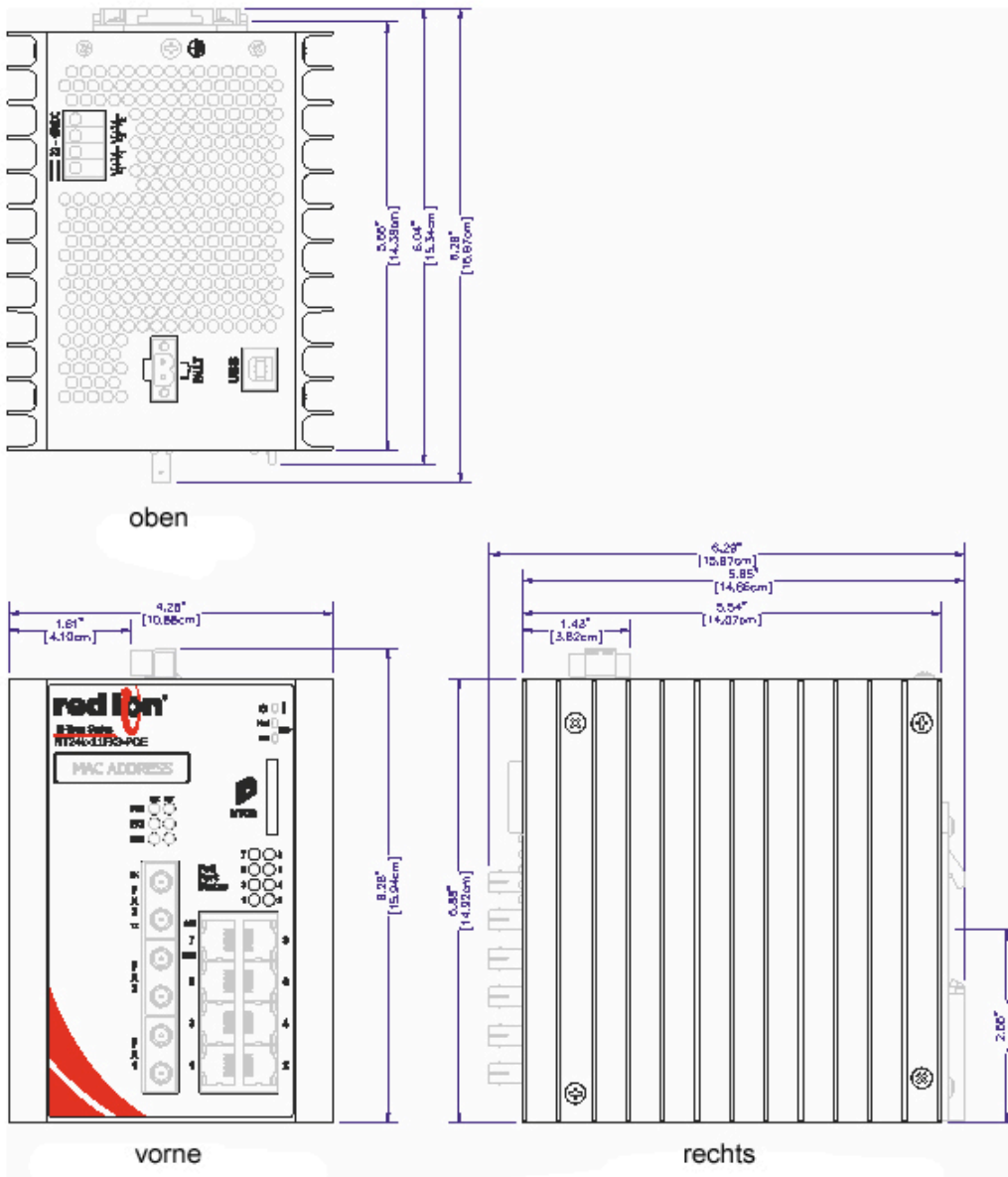
Type:	managed
Operating mode:	Store and Forward
Switching engine:	Full Wire Speed, Layer 2
Management:	Web browser (USB type B)
Ethernet standards:	<ul style="list-style-type: none"> <li>• IEEE 802.3 (10BaseT)</li> <li>• IEEE 802.3u (100BaseTX)</li> <li>• IEEE 802.3ab (1000BaseTX)</li> <li>• IEEE 802.3af (PoE, Type2)</li> <li>• IEEE 802.3at (PoE+, Type2)</li> <li>• IEEE 802.3x (Flow Control - FD)</li> <li>• IEEE 802.1d/D/w (STP, RSTP)</li> <li>• IEEE 802.1p (Class of Service)</li> <li>• IEEE 802.1Q (tagged VLANs)</li> <li>• IEEE 802.1x (RADIUS)</li> </ul>
Features:	<ul style="list-style-type: none"> <li>• PoE, PoE+</li> <li>• Port Mirroring</li> <li>• Jumbo Frame Support</li> <li>• DHCP (Client)</li> <li>• IGMP auto-configuration</li> <li>• SNMP v1, v2, v3</li> <li>• STP</li> <li>• N-Ring™ - ring redundancy</li> <li>• N-Link™ - multi-ring redundancy</li> <li>• N-View™ - Monitoring</li> </ul>
Ports - Total:	11x
Ports - PoE:	8x IEEE 802.3af/at (PSE) Output 25.5 W at PD
RJ45 ports:	8x 10/100/1000BaseT(X)
RJ45 - Speed:	Auto-negotiation (10/100/1000 Mbit/s)
RJ45 - Duplex:	Half or full duplex
RJ45 connection:	MDI/MDIX Auto-Crossover / TD/RD Auto-Polarity

RJ45 - Isolation:	ESD and overvoltage protection
Fiber ports:	3x 100BaseFX
Fiber - Wavelength:	1550 nm
Fiber - Type:	Singlemode
Fiber - Connector:	ST
Fiber - Distance:	80 km
Interfaces:	<ul style="list-style-type: none"> <li>• USB type B</li> <li>• SD card slot</li> </ul>
Sensors:	Temperature (onboard)
Fault signaling contact:	configurable
MAC table size:	16.000
Backplane:	16.4 Gbit/s
Latency:	1.6 µs (typical values, load-dependent)
Power supply:	Redundant input terminal block connector with overvoltage protection
Voltage range:	22 to 49 VDC
Power consumption:	11.24 A @ 24 VDC
Inrush current:	60.8 A / 0.2 ms @ 24 VDC
BTU/h:	122
Operating temperature:	-40 °C to +80 °C
Storage temperature:	-40 °C to +85 °C
Humidity:	10 % to 95 % rH (non-condensing)
max. insertion height:	3000 m
Vibration and shock:	Shock: 200 g @ 10 ms Vibration: 50 g @ 5 to 200 Hz (triaxial, wall mount bracket)

Certifications:	<p><b>Product safety</b> ANSI/ISA 12.12.01-2013 Class I and II, Div. 2 and Class III, Div. 1 and 2, Groups A, B, C and D Hazardous Locations UL508 Industrial Control Equipment CAN/CSA-C22.2 No. 213-M1987 Class I Div. 2 Hazardous Locations CAN/CSA-C22.2 No. 14-M1987 Industrial Control Equipment</p> <p><b>Emissions</b> FCC Title 47, Part 15, Radio Frequency Devices, Subpart B ANSI C63.4-2009 Industry Canada ICES-003, EN 55011; EN 61000-6-4, EN 61000-3-2, EN61000-3-3, EN 55032</p> <p><b>Immunity</b> EN 55024, EN 61000-6-2; IEC 61000-4-2 (ESD); IEC 61000-4-3 (RFAM); IEC 61000-4-4 (EFT); IEC 61000-4-5 (SURGE); IEC 61000-4-6 (RFCM); IEC 61000-4-8 (PFMF); IEC 61000-4-11 (VDI )</p> <p><b>Rail</b> EN 50155, EN 50121 and EN 61373</p> <p><b>Designed In Compliance</b> IEEE 1613 (Electric Utility Substations), NEMA TS1/TS2 (Traffic Control)</p> <p><b>Other</b> ABS Type Approval for Shipboard Applications; EMC Directive 2014/30/EU; LV Directive 2014/35/EU GOST-R, RoHS Compliant</p>
Protection class:	IP20
MTBF:	2.000.000+ h
Execution:	Metal
Dimensions (WxHxD):	7.87 cm x 14.92 cm x 14.07 cm
Weight:	1.46 kg
Assembly:	DIN rail
Manufacturer:	Red Lion Controls, USA

Drawings

Dimensions



Downloads / FAQ

The following files could be downloaded from our website directly from this product under the tab "Drawings":

**Dimensions 2D**

NT24k-11FX3-POE-Zeichnung.pdf



Wachendorff Prozesstechnik GmbH & Co. KG  
Industriestrasse 7 • 65366 Geisenheim  
Germany

Phone: +49 (0) 67 22 / 99 65 - 20  
E-Mail: [wp@wachendorff.de](mailto:wp@wachendorff.de)  
[www.wachendorff-prozesstechnik.de](http://www.wachendorff-prozesstechnik.de)

