WACHENDORFF
Prozesstechnik GmbH & Co. KG

NT24K-12GXE4-SC-80
N-Tron NT24k® Networking Series



- Managed, Full Gigabit, Layer 2
- 8x 10/100/1000BaseT(X) - RJ45
- 4x 1000BaseFX - SM, SC, 80 km
- Operating temperature -40 °C to +85 °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-12GXE4-SC-80

Description

The managed NT24K-12GXE4-SC-80 offers 8x RJ45 and 4x fiber ports in a compact, hardened metal DIN rail housing.
The NT24K-12GXE4-SC-80 is designed for the most demanding environments with features such as 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 communications for applications in alternative energy, manufacturing automation, transportation, and water and wastewater treatment.

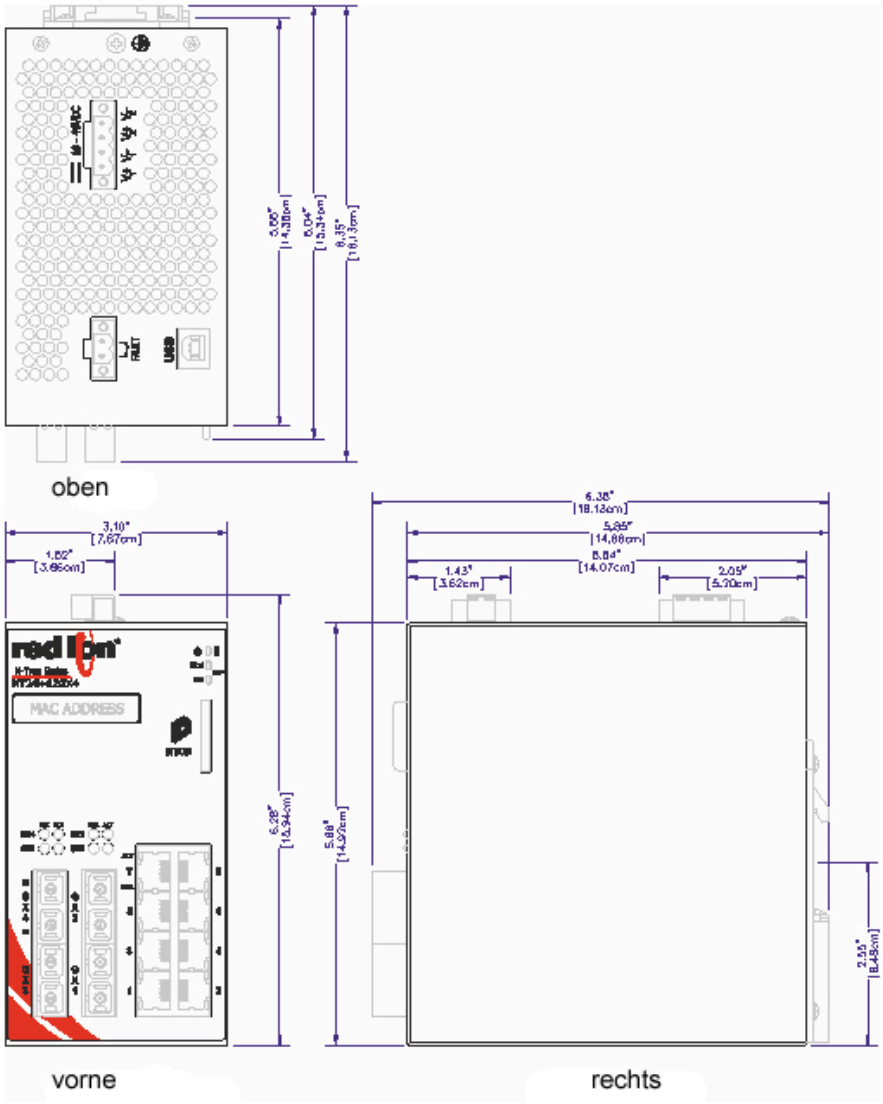
Product details

Type:	managed
Operating mode:	Store and Forward
Switching engine:	Full Wire Speed, Layer 2
Management:	Web browser (USB type B)
Ethernet standards:	• IEEE 802.3 (10BaseT) • IEEE 802.3u (100BaseTX) • IEEE 802.3ab (1000BaseTX) • IEEE 802.3x (Flow-Control - FD) • IEEE 802.1d/D/w (STP, RSTP) • IEEE 802.1p (Class of Service) • IEEE 802.1Q (tagged VLANs) • IEEE 802.1x (RADIUS)
Features:	• Port Mirroring • Jumbo Frame Support • DHCP (Client) • IGMP auto-configuration • SNMP v1, v2, v3 • SNTP • N-Ring™ - ring redundancy • N-Link™ - multi-ring redundancy • N-View™ - Monitoring
Ports - Total:	12x
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:	4x 1000BaseFX
Fiber - Wavelength:	1310 nm
Fiber - Type:	Singlemode
Fiber - Connector:	SC
Fiber - Distance:	80 km
Interfaces:	• USB type B • SD card slot
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:	10 to 49 VDC
Power consumption:	750 mA @ 24 VDC
Inrush current:	21 A / 0.3 ms @ 24 VDC
BTU/h:	61,44
Operating temperature:	-40 °C to +85 °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:	**Product safety** 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 **Emissions** 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 **Immunity** 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) **Rail** EN 50155, EN 50121 and EN 61373 **Designed In Compliance** IEEE 1613 (Electric Utility Substations), NEMA TS1/TS2 (Traffic Control) **Other** ABS Type Approval for Shipboard Applications; EMC Directive 2014/30/EU; LV Directive 2014/35/EU GOST-R, RoHS Compliant
Protection class:	IP20
MTBF:	2.000.000+ h
Execution:	Metal
Dimensions (WxHxD):	7.87 cm x 14.92 cm x 14.07 cm
Weight:	890 gram
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-12GX4-Zeichnung.pdf

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