

N-Tron[®] Series NT5018-GX2

Gigabit Managed Ethernet Switch

The NT5018-GX2 Gigabit Industrial Switch sets a new standard for performance, reliability, and ease of use. The switch features a modern, graphical user interface with a quick start wizard to guide users through switch configuration. A logical view of the switch shows active ports, temperature, alarm and LED status, along with port traffic and event gauges in a single easy to read dashboard.

Features include:



- o Sixteen 10/100/1000 RJ45 ports
- Two 1000Base fiber ports with SC connectors
- Redundant 10-49 VDC power inputs
- High shock and vibration tolerance
- N-Ring[™] technology with ~30ms healing and RSTP/ MSTP network redundancy
- Password encryption, IEEE 802.1X, RADIUS, MAC filtering, syslog
- Advanced management and diagnostics features

CUL USTED E317425









Ordering Guide

Main Unit

Part Number	Description		
NT-5018-GX2-SC00	18-Port Gigabit Managed Industrial Ethernet Switch (16 10/100/1000BaseT RJ45 Ports, 2 1000BaseSX, Multimode, 550m, SC Style Connector)		
NT-5018-GX2-SC10	18-Port Gigabit Managed Industrial Ethernet Switch (16 10/100/1000BaseT RJ45 Ports, 2 1000BaseLX, Singlemode, 10km, SC Style Connector)		
NT-5018-GX2-SC40	18-Port Gigabit Managed Industrial Ethernet Switch (16 10/100/1000BaseT RJ45 Ports, 2 1000BaseLX, Singlemode, 40km, SC Style Connector)		
NT-5018-GX2-SC80	18-Port Gigabit Managed Industrial Ethernet Switch (16 10/100/1000BaseT RJ45 Ports, 2 1000BaseLX, Singlemode, 80km, SC Style Connector)		
Model number may be followed by -CC indicating conformal coating.			

Accessories

Part Number	Description
NT-CPMA-03-00000	NT5000 Panel Mount Kit, Type A (Wide)
NTPS-24-1-3	DIN Rail Power Supply, 1.3 Amp @ 24 VDC

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Specifications

Hardware

Compact, space saving, hardened industrial design Wide operating temperature High shock and vibration tolerance Shock: IEC 68-2-27: 200 g @ 10 ms Triaxial; non-operational; panel mounted Vibration: IEC 68-2-6: 15 g @ 5-200 Hz Triaxial; operational; panel mounted Reverse polarity protection ESD and surge protection Fast boot (traffic passes <20 seconds) Configurable alarm contact Configurable bi-color fault status LED LED port status indicators Jumbo frame support Redundant power inputs (10-49 VDC) Hardened industrial design IEEE 802.3 compliance Full wire speed communication MDIX auto-sensing cable Auto-sensing speed and flow control Up to 36.0 Gb/s maximum throughput) Store-and-forward technology Number of MAC addresses: Up to 8k Latency (typical): < 1.8 µs MTBF: 1.2M Hours

Management

Modern, intuitive Web Interface Configuration wizard Graphical dashboard and logical view of the switch Command Line Interface Port control IGMP v1/v2/v3 auto-configuration SNMP v1/v2/v3 NTP 802.1Q tag VLAN and port VLAN IEEE 802.1p QoS and port QoS Text-based configuration file File transfer: HTTP/HTTPS, TFTP, SNMP DHCP Server, Option 82 relay, Option 61, IP fallback

Security

SSH, SSL, HTTPS MAC Filtering IEEE 802.1X with RADIUS remote server authentication Port/User lockout after failed authentication attempts SNMPv3 Password encryption

Diagnostic

Port mirroring Event log/Syslog LLDP Advanced cable diagnostics

Network Redundancy

RSTP/MSTP Port trunking/LACP N-Ring™ technology with ~30ms healing

MIBs

RFC 2674 VLAN MIB RFC 2819 RMON (Group 1, 2, 3 & 9) RFC 1213 MIB II **RFC 1215 TRAPS MIB** RFC 4188 Bridge MIB RFC 4292 IP Forwarding Table MIB RFC 4293 Management Information Base for the Internet Protocol (IP) RFC 5519 Multicast Group Membership Discovery MIB RFC 2863 Interface Group MIB using SMI v2 RFC 4133 Entity MIB version 3 **RFC 3411 SNMP Management Frameworks** RFC 3414 User-based Security Model for SNMPv3 RFC 3415 View-based access Control Model for SNMP IEEE 802.1AB LLDP-MIB IEEE 802.1 MSTP MIB

Software Tool To Manage/Schedule Firmware Updates

N-View[™] 2

Certification & Compliance

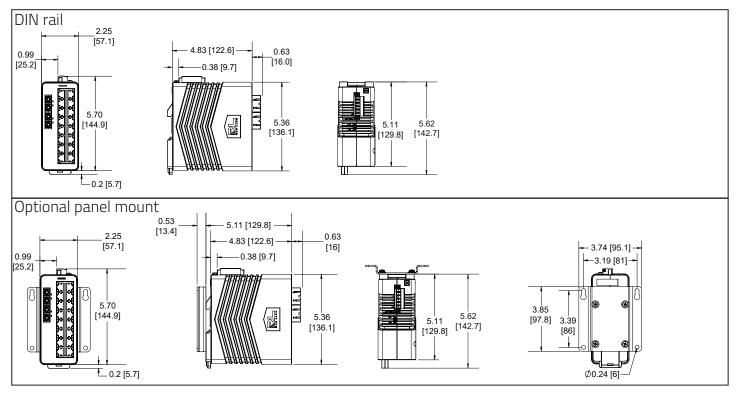
Product Safety: UL 61010 and C22.2 No. 61010 OrdLoc, UL 121201 and CSA C22.2 No. 213 Class I, Division 2 HazLoc, ATEX, IECEx and UKEx II 3 G Ex ec nC IIC T4 Gc, UL 20 ATEX 2645X, UL 22.0038X IECEx and UL22UKEX2346X
EMI/EMC: CFR 47, Part 15, Subpart B, Canada ICES-003, ANSI C63.4, EN 61000-6-2 and 4, IEC 61000-4-2, 3, 4, 5, 6 and 8
Shock & Vibration (panel mounted) - IEC 68-2-27: 200 g @ 10 ms Triaxial; non-operational, IEC 68-2-6: 15 g @ 5-200 Hz Triaxial; operational
Railway/Rolling Stock - EN 50155, EN 50121 and EN 61373
Marine: ABS Type Approval for Shipboard Applications
Designed to Comply With - IEEE 1613 for Electric Utility Substations and NEMA TS1/TS2 for Traffic Control
Other – RoHS compliant

Warranty

3 years on design and manufacturing defects.

Specifications are subject to change. Visit www.redlion.net for more information.

Dimensions In inches [mm]



NT5018-GX2 Specifications				
Weight	nt 1.63 lbs. (0.74 kg)			
Input Voltage Range	10-49 VDC			
Steady Input Range	0.52 A @ 24 VDC			
BTU/hr	42.58			
Operating Temperature Range	-40 to 80 °C			
Storage Temperature Range	-40 to 85 °C			
Humidity (non-condensing)	10 to 95% RH			
Operating Altitude	0 to 10,000 ft.			

Network Media Specifications			
≥Cat3 Cable			
≥Cat5 Cable			
≥Cat5e Cable			
50-62.5/125 μm			
7-10/125 μm			

Connectors				
10/100/1000BaseT	Sixteen (16) RJ45 copper ports			
1000BaseFX	Two (2) SC duplex fiber ports			
F				

Recommended Minimum Wiring Clearance		
Front	4" (101.6 mm)	
Тор	4" (101.6 mm)	

Gigabit Fiber Transceiver Characteristics

Fiber Mode MM		SM	SM	SM
Fiber Length*	550m @ 50/125 μm 300m @ 62.5/125 μm	10 km	40 km	80 km
TX Power Min.	-9.5 dBm	-9.5 dBm	-5 dBm	0 dBm
RX Sensitivity Max.	-17 dBm	-20 dBm	-23 dBm	-24 dBm
Wavelength	850 nm	1310 nm	1310 nm	1550 nm
Laser Type	VCSEL	FP	DFB	DFB

* Fiber Length distances represent typical performance. Link budgets should be evaluated based on specific application conditions.



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