

# N-Tron® Series NT5008-GX2

## Gigabit Managed Ethernet Switch

THE NT5008-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:



- ▲ Six 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™ auto-member and RSTP/MSTP network redundancy
- ▲ Password encryption, IEEE 802.1X, RADIUS, MAC filtering, syslog
- ▲ Advanced management and diagnostics features



## Ordering Guide

### MAIN UNIT

PART NUMBER	DESCRIPTION
NT-5008-GX2-SC00	8-Port Gigabit Managed Industrial Ethernet Switch (6 10/100/1000BaseT RJ45 Ports, 2 1000BaseSX, Multimode, 550 m, SC Style Connector)
NT-5008-GX2-SC10	8-Port Gigabit Managed Industrial Ethernet Switch (6 10/100/1000BaseT RJ45 Ports, 2 1000BaseLX, Singlemode, 10 km, SC Style Connector)
NT-5008-GX2-SC40	8-Port Gigabit Managed Industrial Ethernet Switch (6 10/100/1000BaseT RJ45 Ports, 2 1000BaseLX, Singlemode, 40 km, SC Style Connector)
NT-5008-GX2-SC80	8-Port Gigabit Managed Industrial Ethernet Switch (6 10/100/1000BaseT RJ45 Ports, 2 1000BaseLX, Singlemode, 80 km, 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

# ▲ NT5008-GX2 Specifications

## ▲ 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 16.0 Gb/s maximum throughput  
Store-and-forward technology  
Number of MAC addresses: Up to 4k  
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  
DHCP client  
Text-based configuration file  
File transfer: HTTP/HTTPS, TFTP, SNMP

### 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™ auto-member

### 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  
DNV (pending)  
Designed to Comply With - IEEE 1613 for Electric Utility Substations and NEMA TS1/TS2 for Traffic Control  
Other - RoHS compliant

### WARRANTY

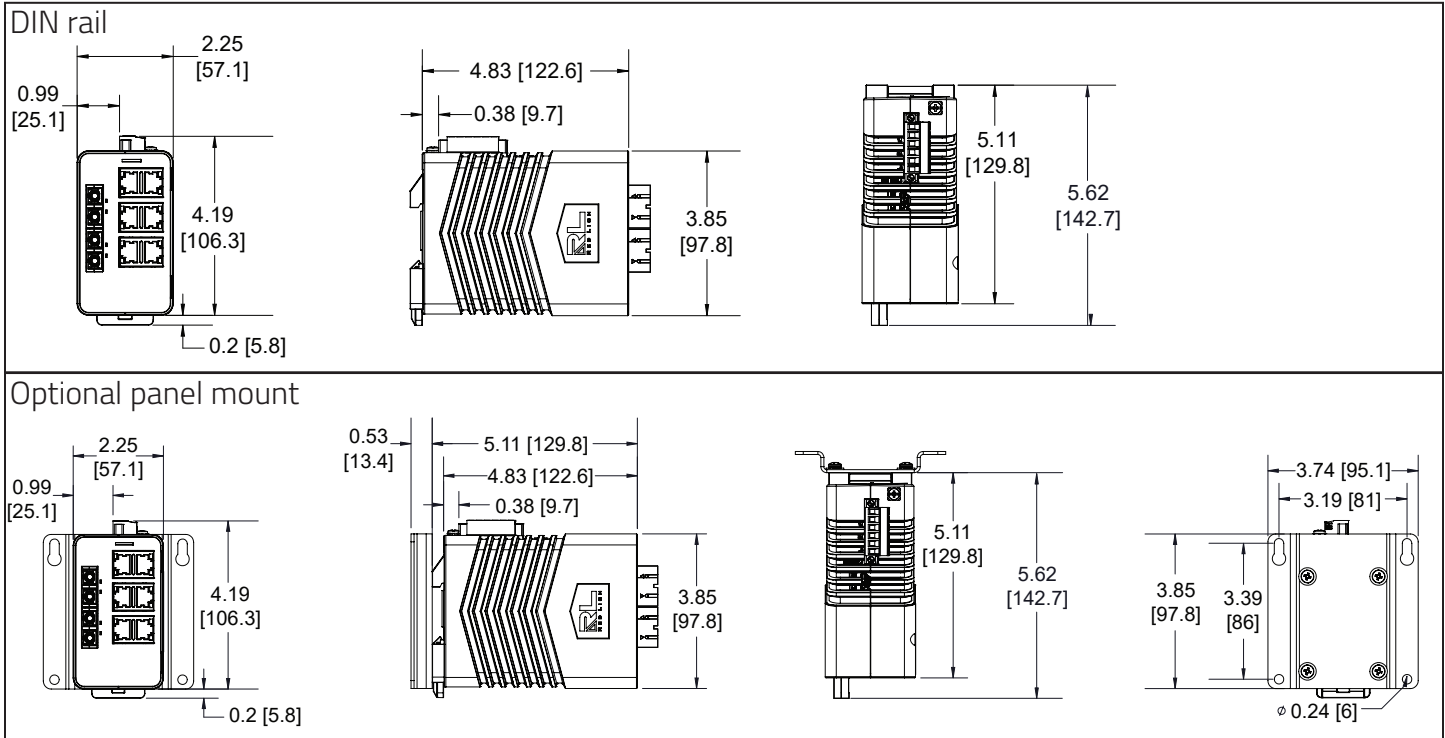
3 years on design and manufacturing defects.

Specifications are subject to change.

Visit [www.redlion.net](http://www.redlion.net) for more information.

# NT5008-GX2 Dimensions and Specifications

## Dimensions In inches [mm]



NT5008-GX2 SPECIFICATIONS	
Weight	1.38 lbs. (0.62 kg)
Input Voltage Range	10-49 VDC
Steady Input Range	0.26 A @ 24 VDC
BTU/hr	21.29
Operating Temperature Range	-40 to 85 °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	
10BaseT	≥Cat3 Cable
100BaseTX	≥Cat5 Cable
1000BaseT	≥Cat5e Cable
1000BaseFX Multimode	50-62.5/125 μm
1000BaseFX Singlemode	7-10/125 μm

CONNECTORS	
10/100/1000BaseT	Six (6) RJ45 copper ports
1000BaseFX	Two (2) SC duplex fiber ports

RECOMMENDED MINIMUM WIRING CLEARANCE	
Front	4" (101.6 mm)
Top	4" (101.6 mm)

# ▲ NT5008-GX2 Transceiver Characteristics

## Gigabit Fiber Transceiver Characteristics

Fiber Mode	MM	SM	SM	SM
Fiber Length*	550m @ 50/125 $\mu$ m 300m @ 62.5/125 $\mu$ m	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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