

# Lanolinx LNX-804GN

4-Port 10/100/1000T + 4-Port 10/100/1000T/Mini-GBIC Combo Managed Industrial Switch

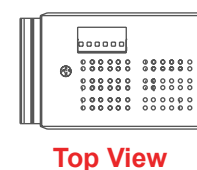
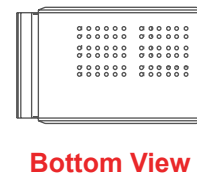
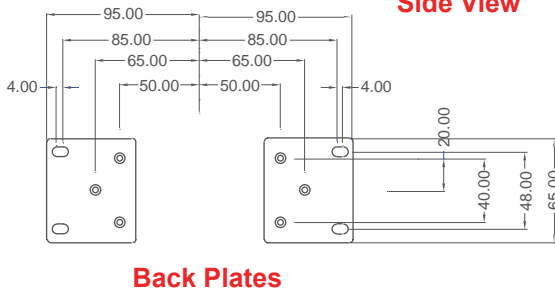
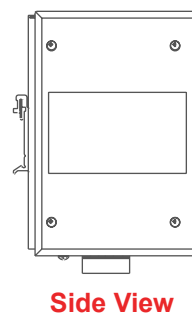
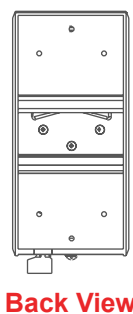
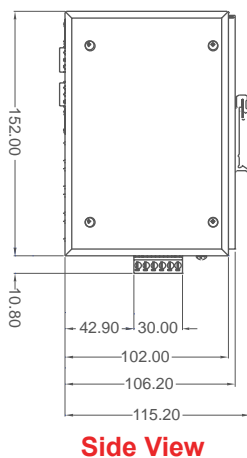
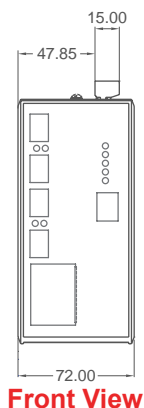


## Features

- ▶ 4-Port 10/100/1000T + 4-Port 10/100/1000T/Mini-GBIC Combo
- ▶ 16 Gbps Back-Plane (Switching Fabric)
- ▶ Ethernet Ring Redundancy (Recovery Time < 20ms)
- ▶ IEEE 802.1w Rapid Spanning Tree & IEEE 802.1d Spanning Tree Protocol
- ▶ IEEE 802.1x RADIUS
- ▶ IEEE 802.1p Class of Service for Traffic Classification & Prioritization
- ▶ Qos (Quality of Service)
- ▶ Supports Port Based VLAN & IEEE 802.1Q Tag VLAN
- ▶ IGMP with Query Mode for Multi-Media Applications
- ▶ Port Mirroring for Traffic Monitoring
- ▶ IP Address Security Management to Prevent Unauthorized Access
- ▶ IP30 Rugged Aluminum Case Design
- ▶ DIN-Rail or Panel Mountable for Easy Installation



## ▶ Dimensions (unit = mm)



## ► Specifications

### Standard

IEEE 802.3 10BaseT Ethernet  
IEEE 802.3u 100BaseTX  
IEEE 802.ab 1000BaseT  
IEEE 802.3z Gigabit Fiber  
IEEE 802.3x Flow Control and Back-Pressure  
IEEE 802.3ad Port Trunking with LACP  
IEEE 802.1d Spanning Tree / IEEE 802.1w Rapid Spanning Tree  
IEEE 802.1p Class of Service  
IEEE 802.1Q VLAN Tag  
IEEE 802.1x User Authentication (RADIUS)

### Management

SNMP v1, v2c, v3, Web, Telnet, CLI

### VLAN

Port Based, IEEE 802.1Q Tag VLAN (256 Entries)  
VLAN ID (Up to 4K, 0 to 4096), GVRP (256 Groups)

### RFC Standard (SNMP MIB)

RFC1215 Trap, RFC1213 MIB II, RFC1157 SNMP MIB, RFC1493 Bridge MIB,  
RFC2674 VLAN MIB, RFC1643, RFC1757, RSTP MIB, Private MIB

### SNMP Trap

Up to 3 Trap Stations  
Cold Start, Port Link Up, Port Link Down, Authentication Failure, Private Trap  
for Power Status, Port Alarm Configuration, Fault Alarm, Ring Topology Change

### Protocol

CSMA/CD

### Switch Architecture

Back-Plane (Switching Fabric): 16Gbps  
Packet Throughput Ability (Full-Duplex): 23.8Mpps @ 64bytes

### Transfer Rate

14,880pps for Ethernet Port  
148,800pps for Fast Ethernet Port  
1,488,000pps for Gigabit Fiber Ethernet Port

### MAC Address

8K MAC Address Table

### Packet Buffer

1 Mbits

### Flash ROM

4 Mbytes

### DRAM

32 Mbytes

### LED

Unit: Master, Power, Power 1, Power 2, Fault  
Port: Link/Activity, Speed  
SFP: Link/Activity

### Interface

10/100/1000T: 4 x RJ-45  
SFP: 4 x Mini-GBIC Sockets  
Console Port: RS-232 Connector

### Network Cable

10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)  
100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)

### Optical Cable

LC (Multi-Mode): 50/125µm ~ 62.5/125µm  
LC (Single-Mode): 9/125µm ~ 10/125µm  
Available Distance: See SFP Specifications  
Wavelength: 1310nm (Multi-Mode and Single-Mode)

### Port Trunk with LACP

LACP Port Trunk: 4 Trunk Groups / Maximum 4 Trunk Members

### Redundant Ring

Supports Redundant Ring, Dual Homing, and Couple Ring  
Redundant Backup Feature and Recovery Time < 20 ms

### Flow Control

Flow Control for Full-Duplex and Back Pressure for Half-Duplex

### Class of Service (IEEE 802.1p)

Provides 4 priority queues per port

### Quality of Service

Port, Tag, IPv4 Type of Service, IPv4 / IPv6 Different Service

### IGMP

IGMP v1, v2, v3. Up to 256 Multicast Groups & IGMP Query

### Spanning Tree

IEEE 802.1d Spanning Tree  
IEEE 802.1w Rapid Spanning Tree

### SNTP

Supports Simple Network Time Protocol

### SMTP

Supports Simple Mail Transfer Protocol (6 eMail Accounts for Alerts)

### IP Security

Supports up to 10 IP Addresses for Secured Access

### System Event Log

Supports System Log Record and Remote System Log Server

### Port Mirror

TX, RX, or Both Packets

### Port Security

100 MAC Address Entries for Static MAC and 100 MAC Filters

### Login Security

IEEE 802.1x Authentication/RADIUS

### DHCP

DHCP Client / Server Functions

### DNS

DNS Client Feature and Primary & Secondary DNS Server

### Bandwidth Control

Supports Ingress and Egress packet limit

### Alarm

Provides 1 Relay Output (1A @ 24VDC) for Port Breakdown and Power Fail

### Firmware Update

Supports TFTP Firmware Update, Backup & Restore

### Configuration Upload & Download

Supports Binary Configuration File for Quick System Installation

### Power Supply

DC 12 ~ 48V, Redundant Power with Polarity Reverse Protection Function  
and Removable Terminal Block

### Power Consumption

17 Watts (Open Issue)

### Mechanical

Casing: IP30 Metal Case  
Dimension (W x H x D): 72 x 152 x 105 mm (2.83 x 4.13 x 5.98 in.)  
Installation: DIN-Rail/Wall Mountable  
Weight: 2 lbs. (Unit Weight) / 3 lbs. (Shipping Weight)

### Operation Temperature

Standard: -10° C to 70° C (14° F to 158° F)  
Wide Operating Temperature: -40° to 80° C (-40° to 176° F)

### Operation Humidity

5% to 95% (Non-condensing)

### Storage Temperature

-40° C to 85° C

### EMI

FCC Class A, CE EN6100-4-2, EN6100-4-3, EN6100-4-4, EN6100-4-5,  
EN6100-4-6, EN6100-4-8, EN6100-4-11, EN6100-4-12, EN6100-6-2, EN6100-6-4

### Safety

UL, cUL, CE EN60950-1

### Stability Testing

Shock: IEC60068-2-27  
Free Fall: IEC60068-2-32  
Vibration: IEC60068-2-6

### Warranty

5-Year Warranty

## ► Ordering Information

### LNX-804GN

8-Port (4-port 10/100/1000T + 4-port 10/100/1000T/Mini-GBIC Combo) Gigabit Industrial Ethernet Switch, Redundant Ring, Managed \*\*\*

### LNX-804GN-T

8-Port (4-port 10/100/1000T + 4-port 10/100/1000T/Mini-GBIC Combo) Gigabit Industrial Ethernet Switch, Redundant Ring, Managed, Wide Operating Temp.\*\*\*

\*\*\* SFP MODULES SOLD SEPARATELY \*\*\*

### Optional Accessories

#### SFP-M

SFP Module, Multi-Mode, 550m

#### SFP-S10

SFP Module, Single-Mode, 10Km

#### DR-4524

45W 24VDC Industrial DIN Rail Power Supply

#### DR-75-24

75W 24VDC Industrial DIN Rail Power Supply

#### DR-120-24

120W 24VDC Industrial DIN Rail Power Supply

### Aaxeon Technologies, Inc.

445 Capricorn St.  
Brea, CA 92821  
USA

Toll-Free: (877) AAXEON5 (229-3665)

Phone: (714) 671-9000

FAX: (714) 671-9944

e-Mail: info@aaxeon.com

**aaxeon**<sup>®</sup>  
www.aaxeon.com