

# Lanolinx LNP-2602GN

24-Port 10/100BaseTX + 2-Port 10/100/1000/Mini-GBIC Combo Managed PoE Industrial Switch

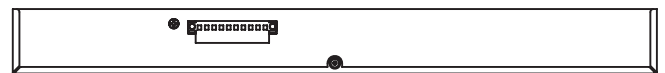
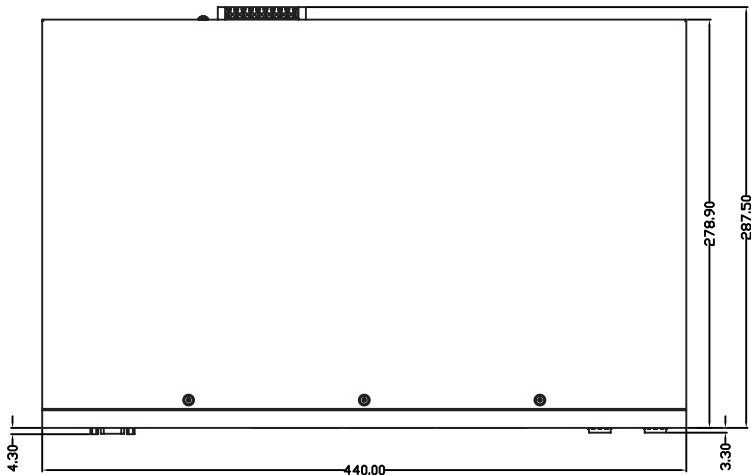


## Features

- ▶ 24-port 10/100TX + 2-port 10/100/1000/Mini-GBIC Combo
- ▶ Embedded 24-Port PoE Injector Function
- ▶ Back-plane (Switching Fabric): 8.8 Gbps
- ▶ 4Mbits Packet Buffer
- ▶ 8K MAC Address Table
- ▶ Port Based VLAN and 802.1 Q Tag VLAN
- ▶ Port Trunk with LACP
- ▶ QoS (Quality of Service)
- ▶ Port Mirroring: Monitor traffic in switched networks
- ▶ Port Security and IP Security
- ▶ IEEE 802.1p Class of Service
- ▶ IEEE 802.1d Spanning Tree and IEEE 802.1w Rapid Spanning Tree
- ▶ IEEE 802.1x / RADIUS
- ▶ IGMP Snooping
- ▶ Redundant Ring function (Recovery Time < 300 ms)
- ▶ SNMP Trap
- ▶ Redundant Power Supply Design



## ▶ Specifications



## ► Specifications

### Standard

IEEE 802.3 10BaseT Ethernet  
IEEE 802.3u 100BaseTX / 100BaseFX  
IEEE 802.3ab 1000Base-T  
IEEE 802.3z Gigabit Fiber  
IEEE 802.3x Flow Control and Back-Pressure  
IEEE 802.3ad Port Trunking with LACP  
IEEE 802.3af Power over Ethernet  
IEEE 802.1d Spanning Tree / IEEE802.1w Rapid Spanning Tree  
IEEE 802.1p Class of Service  
IEEE 802.1Q VLAN Tag  
IEEE 802.1x User Authentication (RADIUS)  
IEEE 802.1ab LLDP

### Switch Architecture

Back-Plane (Switching Fabric): 8.8 Gbps  
Packet Throughput Ability (Full-Duplex): 13.1 Mbps @ 64 bytes

### Transfer Rate

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

### Packet Buffer

4 Mbits

### MAC Address

8 K MAC address table

### Flash ROM

4 Mbytes

### DRAM

32 Mbytes

### Jumbo Frame

9022 bytes (for Gigabit Ports)

### Connector

10 / 100TX: 24 x RJ-45  
10/100/1000T/Mini-GBIC Combo: 2 x RJ-45 + 2 x SFP Sockets  
RS-232 Console: 1 x Female DB9  
Power Input: 1 x 10-pole Removable Terminal Block

### PoE Pin Assignment

RJ-45 port # 1~# 24 Supports IEEE 802.3af End-point, Alternative A mode  
Per Port Provides 15.4W Ability  
Positive (VCC+): RJ-45 Pin 1, 2  
Negative (VCC-): RJ-45 Pin 3, 6  
Data (1,2,3,6)

### LED

Power: DC-PWR1 (Green ), DC-PWR2 (Green), FAULT (Amber)  
Port 1-24: PoE (Green), LNK/ACT (Green), FDX (Amber)  
Port 25-26: LNK/ACT (Green), FDX/COL (Amber)

### Power Input

DC 48V Input, Redundant Power with Polarity Reverse Protect Function

### Relay Alarm

Provides One Relay Output for Port Link-Down & Power Fail Alarm  
Alarm Relay Current Carry Ability: 1A @ DC 24V

### Power Consumption

375 Watts Max.

### Management

SNMP v1 v2c v3, Web, Telnet, CLI Management

### SNMP MIB

RFC 1213 MIBII, RFC 2011 SNMP V2 MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 1215 Trap MIB, RFC 1643 Ethernet Like, RFC 1757 RMON1, RSTP MIB, PoE MIB, LLDP MIB, Private MIB

### VLAN

Port based VLAN, up to 256 Groups, IEEE 802.1Q Tag VLAN, Static VLAN Groups up to 256, VLAN ID from 1 to 4094, GVRP up to 256 Groups

### Port Trunk with LACP

LACP Port Trunk: 13 Trunk groups / Maximum 4 trunk members

### LLDP

LLDP Allows Switch to Advise it's Identification & Capability on the LAN

### Redundant Ring

Supports Redundant Ring, Dual Homing, and Couple Ring Topology  
Redundant Backup Feature and Recovery Time < 300 ms

### Spanning Tree

IEEE 802.1d Spanning Tree & IEEE802.1w Rapid Spanning Tree

### Quality of Service

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

### Class of Service

IEEE802.1p, Provides 4 priority queues per port

### Port / MAC Security

Support 50 Entries of MAC Address (Static) & Another 50 for MAC Filters

### Port Mirror

TX, RX, and Both Packet

### IGMP

IGMP v1, v2, and Query Mode. Up to 256 Groups. Supports Multicast Filter

### IP Security

Supports 10 IP Addresses

### Login Security

IEEE802.1x Authentication/RADIUS

### Access Control List (ACL)

Supports up to 256 Policies

### Rate Limit

Support Ingress Packet Filter and Egress Packet Limit  
The Egress Rate Control Supports All of Packet Type and the Limit Rates are 0~100Mbps for 10/100TX port and 0~1000Mbps for Giga Mini-GBIC Port

### Flow Control

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

### Broadcast Storm Control

Ingress Filter Packet Type Combination Rules are Control Packet, IP Multicast Packet, Flooded Unicast/Multicast Packet, Broadcast Packet Only and All Types of Packet. The Packet Filter Rate Range can be set 1/2, 1/4, 1/8, or 1/16 of Ingress Rate.

### System Event Log

Supports System Log Record and Remote System Log Server

### SMTP

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

### SNMP Trap

Device Cold start, Authorization Failure, Ring Topology Changed, Port Link Up/Link Down, DC Disconnect Rap-PoE Port Event  
Trap station up to 3

### DHCP

Provide DHCP Client/ DHCP Server/ Per Port IP Binding Functions

### DNS

DNS Client Feature and Primary & Secondary DNS Server

### SNTP

Supports SNTP to Synchronize System Clock in Internet

### Firmware Update

TFTP & Console Firmware Update, TFTP & Console Backup/Restore

### Configuration Upload / Download

Support Binary Format Configuration File for System Quick Installation

### ifAlias

Allows Importing 128bit of Alphabetic String of Words on SNMP & CLI Interface

### Operation Temperature

Standard Temperature Model: -10° C to 60° C  
Wide Operating Temperature Model: -35° C to 70° C

### Operation Humidity

5% to 95% (Non-condensing)

### Storage Temperature

-40° C to 85° C

### Case Dimension (W x D x H)

440 x 280 x 44 mm (17.32 x 11.02 x 1.73 inches)

### Installation

19" Rackmount

### EMI

FCC Class A, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-6, CE EN61000-4-8, CE EN61000-6-2, CE EN61000-6-4

### Safety

UL, cUL, CE EN60950-1

### Stability Testing

IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)

### Warranty

5-Year Warranty

## ► Ordering Information

LNP-2602GN  
LNP-2602GN-T

24-port 10/100TX + 2-port 10/100/1000/Mini-GBIC Combo Industrial PoE Switch with Redundant Ring, Managed  
24-port 10/100TX + 2-port 10/100/1000/Mini-GBIC Combo Industrial PoE Switch with Redundant Ring, Managed, Wide Operating Temperature

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

### Optional Accessories

SFP-M SFP Module, Multi-Mode, 550m  
SFP-S10 SFP Module, Single-Mode, 10Km  
DR-75-48 75W 48VDC Industrial DIN Rail Power Supply  
DR-120-48 120W 48VDC Industrial DIN Rail Power Supply