

Lanolinx LNP-1002GN

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

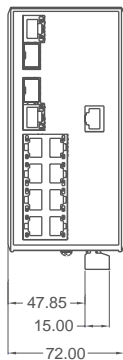


Features

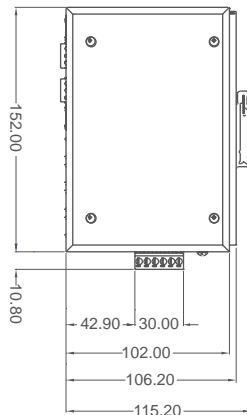
- ▶ 8-Port 10/100TX + 2-Port 10/100/1000T/Mini-GBIC Combo
- ▶ Embedded 8-port PoE Injector Function
- ▶ 5.6 Gbps Back-Plane (Switching Fabric)
- ▶ Ethernet Ring Redundancy (Recovery Time < 20ms)
- ▶ IEEE 802.1w Rapid Spanning Tree & IEEE 802.1d Spanning Tree Protocol
- ▶ IEEE 802.1x RADIUS
- ▶ IEEE 802.1p 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
- ▶ Extended Operating Temperature (-40°C to 80°C) for Harsh Environments
- ▶ DIN-Rail or Panel Mountable for Easy Installation



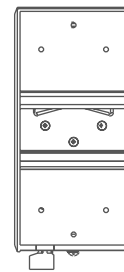
▶ Dimensions (unit = mm)



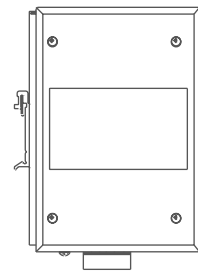
Front View



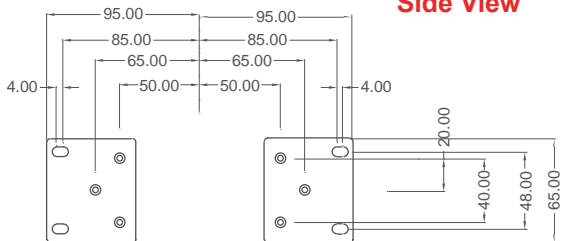
Side View



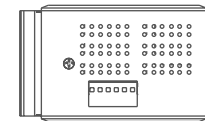
Back View



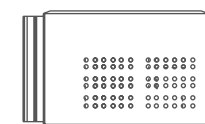
Side View



Back Plates



Bottom View



Top View

► Specifications

Standard

IEEE 802.3 10BaseT Ethernet
IEEE 802.3u 100BaseTX
IEEE 802.3ab 1000BaseT
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 / 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, Menu Driven Management

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)

RFC2030 SNMP, RFC2821 SMTP, RFC1215 Trap, RFC2233 MIB II,
RFC1157 SNMP MIB, RFC1493 Bridge MIB, RFC2674 VLAN MIB,
RFC2665 Ethernet Like MIB, RFC2819 RMON MIB, Private MIB

SNMP Trap

Up to 3 Trap Stations

Protocol

CSMA/CD

Switch Architecture

Back-Plane (Switching Fabric): 5.6Gbps
Packet Throughput Ability (Full-Duplex): 8.3Mpps @ 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
10/100 Port: Link/Activity, Full-Duplex/Collision, Power Feeding
Gigabit Port: Link/Activity

Interface

10/100TX: 8 x RJ-45 with Auto MDI/MDI-X Function
Gigabit Fiber: 2 x Mini-GBIC Socket
RS-232 Connector: RJ-45 type

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)

PoE Pin Assignment

RJ-45 Ports #1 ~ #8 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

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, and Query Mode. Up to 256 Groups

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, DHCP Server, IP Relay Functions

DNS

DNS Client Feature and Primary & Secondary DNS Server

Bandwidth Control

Supports Ingress and Egress packet limit

Alarm

Provides 1 Relay Output for Port Breakdown and Power Fail

Firmware Update

Supports TFTP Firmware Update, Config. Backup & Restore

Power Supply

Input Power Isolation Design, Pass Hi-Pot Test ~ 1.5V
DC 48V, Redundant Power with Polarity Reverse Protection Function
and Connective Removable Terminal Block for Master & Slave Power

Power Consumption

10.7 Watts
PoE Power Budget: 123.2 Watts (Max.)

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° C to 80° C (-40° F 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

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

LNP-1002GN

10-Port (8-port 10/100TX + 2-port 10/100/1000T/Mini-GBIC Combo) Gigabit Industrial PoE Switch, Redundant Ring, Managed ***

LNP-1002GN-T

10-Port (8-port 10/100TX + 2-port 10/100/1000T/Mini-GBIC Combo) Gigabit Industrial PoE Switch, 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

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