LNX-2012GN-SFP Series

Features

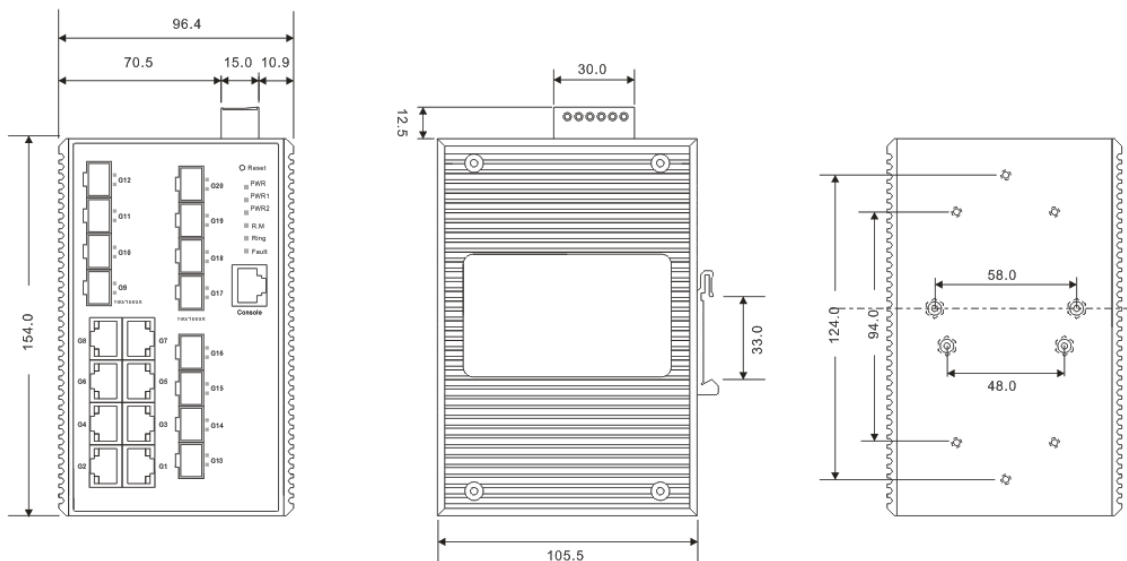**20-Port Industrial Gigabit Managed Ethernet Switches, w/ 8*10/100/1000Tx and 12*100/1000 SFP Slots**

► Supports 8*10/100/1000Tx Gigabit Ethernet Ports and 12*100/1000 Dual Rate SFP Slots for Fiber Connection
► Network Redundancy: STP/RSTP/MSTP/Super Ring
► Supports IPv4/IPv6, and DHCP
► Supports Modbus/TCP Protocol for Device Management and Monitoring
► Configuration: Web Console, Telnet, CLI Command
► IGMP v2/v3 for Multicast Traffic Filtering
► QoS (IEEE802.1p/1Q), CoS/ToS to Increase Determinism
► IEEE802.1Q VLAN for Easy Network Planning
► Enhanced Network Security with IEEE802.1X, SNMP v1/v2c/v3, HTTPS, and SSH/SSL
► Port Lock Function for Unauthorized Access Based on MAC Address Blocking
► Auto Warning by Exception through E-mail, Relay Output
► Support RMON Function for Efficient Network Monitoring
► Support Port Mirroring for Online Diagnostic
► 5-Year Warranty

INTRODUCTION

Antaira's LNX-2012GN-SFP series is a 20-port industrial gigabit managed Ethernet switch that is embedded with eight gigabit Ethernet ports and twelve dual rate (100/1000) SFP slots for fiber connection. It supports jumbo frames up to 9.6K for huge Ethernet data packet transmissions. It is a fully manageable Layer 2 Ethernet switch that is pre-loaded with a user-friendly web management console design. It supports the Super Ring network redundancy system to prevent any single failure causing extended downtime. The advanced network filtering and security functions, such as, IGMP, VLAN, QoS, SNMP, port lock, RMON, Modbus TCP, and 802.1X/HTTPS/SSH/SSL increase determinism and improve network management for remote SCADA systems or control networks.

The LNX-2012GN-SFP series is compact, IP30 rated, and DIN-rail or wall mountable. There are also two wide operating temperature models for either a standard temperature range (STD: -10°C to 70°C) or an extended temperature range (EOT: -40°C to 75°C). It also provides high EFT and ESD protection for industrial networking applications, such as, power/utility, water wastewater, oil/gas/mining, factory automation, security surveillance, ITS and any other outdoor or harsh environment.

DIMENSIONS

SPECIFICATIONS

Technology

Standards	IEEE 802.3 10Tx Ethernet IEEE 802.3u 100Tx Fast Ethernet IEEE 802.3ab 1000Tx Gigabit Ethernet IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control for Full Duplex IEEE 802.3ad for Port Trunk with LACP IEEE 802.1d STP (Spanning Tree Protocol) IEEE 802.1w RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s MSTP (Multiple Spanning Tree Protocol) IEEE 802.1Q for VLAN Tagging IEEE 802.1x for Network Authentication IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization Super Ring Network Redundancy
Protocol	IGMPv2/v3, SNMPv1/v2c/v3, TFTP, SNTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, DHCP Option 66/67/82, SSH/SSL, Modbus/TCP, LLDP, IPv4/IPv6

Switch Properties

Switch Architecture	Back-Plane (Switching Fabric): 40.0Gbps
Configuration	Web Console, Telnet, CLI
Processing Type	Store and Forward
Flow Control	IEEE 802.3x for full duplex mode, back pressure for half duplex mode
Transfer Rate	14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for Gigabit Ethernet
Packet Buffer	4 Mbits
Jumbo Frame	9.6K
MAC Table Size	8K
VLAN Group	1 ~ 4094
IGMP Group	Up to 256 Groups

Port Interface

Ethernet RJ45 Port	8*10/100/1000BaseTx auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
Fiber Port	12* 100/1000 SFP Slot
Wavelength	Refer to SFP Modules
RS232 Serial Console	1*RS232 in RJ45 connector with console cable, 115.2Kbps, 8,N,1

Protection

Overload Current	Present
Power Reverse Polarity	Present
CPU Watchdog	Present
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable; 100Base-TX: 2-pair UTP/STP Cat. 5 cable. EIA/TIA-568 100-ohm (100m) 1000BaseTX: UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)

Mechanical Characteristics

LED Indicator	Per Unit: Power 1 & 2 (Green), Fault (Red) RM: Switch is the Ring Master Ring: Switch is part of the Ring
Housing	Metal IP30 rated
Dimension	96.4 x 154 x 105.5 mm
Weight	Unit: 2.7 lbs.; Shipping: 3.7 lbs.
Mounting	DIN-Rail; Wall-Mount (optional)

Power Requirement

Input Voltage	12~48VDC Redundant Input
Power Connection	1 removable 6-contact terminal block
Power Consumption	10 Watts

Environmental Limits

Operating Temperature	STD: -10 to 70°C EOT: -40 to 75°C
Storage Temperature	-40°C ~ 85°C
Ambient Relative Humidity	5 to 95%, (non-condensing)

Regulatory Approvals

EMI	FCC Class A
EMS	IEC61000-4-2,3,4,5,6,8,11 IEC61000-6-2,4
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE, UL 508
Warranty	5 Years

ORDERING INFO

LNX-2012GN-SFP	20-Port Industrial Gigabit Managed Ethernet Switch with 8*10/100/1000Tx + 12*100/1000 SFP Slots
LNX-2012GN-SFP-T	20-Port Industrial Gigabit Managed Ethernet Switch with 8*10/100/1000Tx + 12*100/1000 SFP Slots; EOT: -40°C to 75°C

Optional Accessories

MDR-20-24	20W Industrial Din Rail Power Supply (24VDC)
MDR-40-48	40W Industrial Din Rail Power Supply (48VDC)
DR-75-48	75W Industrial Din Rail Power Supply (48VDC)
SFP-M-T	1 Gigabit Fiber SFP Transceiver, Multi-Mode 550M / LC / 850nm, -40°C~85°C
SFP-S10-T	1 Gigabit Fiber SFP Transceiver, Single Mode 10KM / LC / 1310nm, -40°C~85°C
DIN-RACK-2U	Din-Rail to 19" Rack Mount Adapter for all Din-Rail Mountable Products, 2U Height