

Overview

NW-ISM-4GX24GT-C A high-performance 24-port Gigabit + 4-port fiber managed industrial switch built for extreme environments. Features fanless cooling, -40°C to +75°C operation, and 8-15KV lightning protection with ERPS ring redundancy for <50ms failover. Combines 28 ports (24xGbE RJ45 + 4x1000Base-X SFP) with industrial-grade reliability for critical infrastructure.

Applications

- Railways: Train-ground comms & signaling systems
- Smart Cities: Traffic/security network backbone
- Highways: Toll/ITS roadside cabinets
- Oil & Gas: Hazardous area connectivity
- Power Plants: Substation automation
- Outdoor: Surveillance & harsh environment IoT

Features

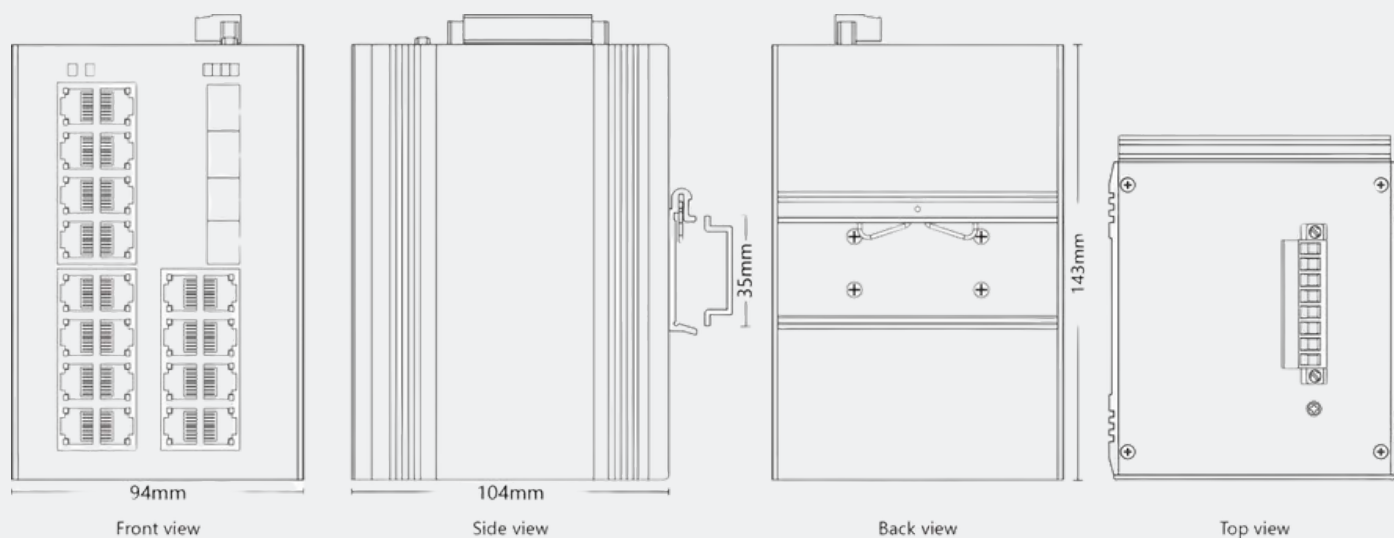
- 12-58V DC Input
- -40°C ~ +85°C Operation
- IP40 Fanless Design
- RoHS/FCC/CE Certified
- 8-15KV ESD Protection
- 100K Hours MTBF

NW-ISM-4GX24GT-C

L2+ Managed Industrial Ethernet Switches



Dimensions



Specifications

Provider Mode Ports

Fixed port

4*1000 Base-X, 24*10/100/1000 Base-T

Management Port

Support Console

Power interface

Phoenix terminal, dual power input

LED Indicators

PWR, Link/ACT LED

Cable Type & Transmission Distance

Twisted-pair

0-100m (CAT5e,CAT6)

Monomode optical fiber

20/40/60/80/100KM

Multimode optical fibre

550m

Specifications

Network Topology

Ring topology	Support
Star topology	Support
Bus topology	Support
Tree Topology	Support
Hybrid topology	Support

Electrical Specifications

Input voltage	Non PoE: DC12-58V PoE: DC48-58V
Total Power consumption	Non PoE<26W PoE<386W

Management

CLI	Support
Console	Support
Management IP	Support IPv4/IPv6
Telnet/SSH	Support
WEB management	Support
SNMP	Support SNMPv1/v2c/v3
User Management	Support
User Rights Management	Support
System Log	Support
Configuration File Download/Upload	Support
Upgrade Firmware	Support

Specifications

Environment

Operating temperature	-40°C~+75°C
Storage temperature	-40°C~+70°C
Relative humidity	5%~95% (non-condensing)
Thermal methods	Fanless, natural cooling
MTBF	100,000 hours

PoE Support (optional)

PoE port	1-8
PoE Protocol	802.3af, 802.3at
Pin Assignment	1,2+,3,6-
PoE Management	Support

PoE Support++ (optional)

PoE port	1-8
PoE Protocol	802.3af, 802.3at, 802.3bt(1-2& 23-24 Support)
Pin Assignment	1245+ 3678-
PoE Management	Support

Specifications

Layer 2 Switching

Switching capacity	68G
Packet forwarding rate	50.59Mpps
MAC address table	16K
VLAN	Support 4K
Buffer	12M
Forwarding delay	<10us
MDI/MDIX	Support
Flow control	Support
Jumbo Frame	Support 10Kbytes
Spanning Tree	Support STP/RSTP/MSTP
Ring Protocol	Support ERPS
Link Aggregation	Support 12 group
Multicast	Support IGMP Snooping
Port Mirroring	Support SPAN and RSPAN
Port loopback detection	Support
Storm Control	Support
Interface Counters	Support
QINQ	Support
802.1X	Support
MAC Authentication	Support
Port Isolation	Support
RMON	Support
NTP Client	Support
DHCP Client	Support
DHCP snooping	Support
Ping/tracert test	Support

Specifications

Layer 2 Switching

Dying gasp	Support
DDM	Support
Port security	Support
IP Source Guard	Support
Device scanning	Support

layer 3 function

IPv4 static routing/IPv6 static routing	Supports 256 static routes
ARP	ARP table entry aging
DHCP server	support

Mechanical Dimensions

Product size	94*104*143mm
Installation Method	DIN-rail
Weight	1KG

Specifications

EMC&INGRESS PROTECTION

IP Level

IP40

Surge protection of Power

IEC 61000-4-5 Level X (6KV/6KV) (8/20us)

Surge protection of Ethernet port

IEC 61000-4-5 Level 4 (4KV/4KV) (10/700us)

RS

IEC 61000-4-3 Level 3 (10V/m)

EFI

IEC 61000-4-4 Level 3 (1V/2V)

CS

IEC 61000-4-6 Level 3 (10V/m)

PFMF

IEC 61000-4-8 Level 4 (30A/m)

DIP

IEC 61000-4-11 Level 3 (10V)

ESD

IEC 61000-4-2 Level 4 (8K/15K)

Free fall

0.5m

Convergence

ACL

Supports 240 ACL entries;
Support IP standard ACL/ACLv6;
Support MAC extension ACL/ACLv6;
Support IP extension ACL/ACLv6;
Support L4 layer ACL

QoS

Support QoS re-marking, priority mapping
Support SP, WRR queue scheduling
Support egress rate-limited, egress rate-limit
Support Policy-based QoS

Standards Compliance

Standards Compliance

IEEE 802.3 10BASE-T
 IEEE 802.3u 100BASE-TX
 IEEE 802.3z Gigabit SX/LX
 IEEE 802.3ab Gigabit 1000T
 IEEE 802.3bz 2.5GBASE-X
 IEEE 802.3x flow control and back pressure
 IEEE 802.3ad port trunk with LACP
 IEEE 802.1D Spanning Tree Protocol
 IEEE 802.1w Rapid Spanning Tree Protocol
 IEEE 802.1s Multiple Spanning Tree Protocol
 IEEE 802.1p Class of Service
 IEEE 802.1Q VLAN tagging
 IEEE 802.1X Port Authentication Network Control
 IEEE 802.1ab LLDP
 IEEE 802.1ag Connectivity Fault Management(CFM)
 RFC 1112IGMP v1
 RFC 2236 IGMP v2
 RFC 3376IGMP v3
 RFC783 TFTP
 RFC 791 IP
 RFC 792 ICMP
 RFC 2068 HTTP
 RFC 2616 HTTPS
 ITU-T G.8032 ERPS Ring

Specifications

Authentication

Authentication

CE/FCC/RoHS

Accessories

Accessories

Device, Terminals, Specification, Certificate
Adapter(optional)

Optional model

NW-ISM-4GX24GT-C

4 Gigabit SFP optical interfaces, 24 10/100/1000M
electrical ports

NW-ISM-4GX24GP-C

4 Gigabit SFP optical interfaces, 24 10/100/1000M
electrical ports, supporting PoE&PoE+

NW-ISM-4GX24GP4B-C

4 Gigabit SFP optical interfaces, 24 10/100/1000M
electrical ports, supporting PoE&PoE+&PoE++