



NEO WAVE[®]

NW-ISM-4GX16GT-C



Overview

NW-ISM-4GX16GT-C Managed Industrial Ethernet Switch with 4×1000Base-X fiber ports and 16×10/100/1000Base-T RJ45 ports, featuring fanless design, wide operating temperature range, high protection, and ERPS ring protection for reliable operation in harsh industrial environments.

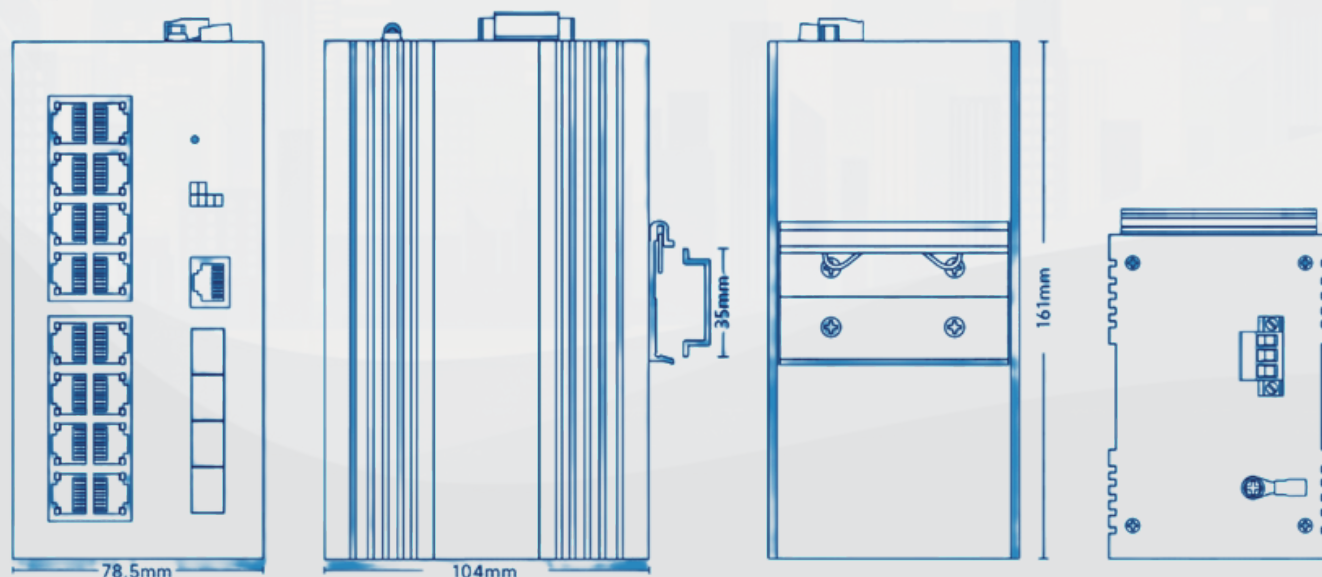
Applications

- Rail Transit
- Safe City
- Intelligent Transportation
- Outdoor Surveillance
- Industrial Networks
- Harsh Environment Monitoring

Features

- Input Voltage: DC12~58V
- Operating Temperature: -40°C ~ +85°C
- Shell: IP40 protection, fanless design
- Test Report: RoHS, FCC, CE
- Anti-static: 8KV-15KV
- MTBF: 100000 Hours

Dimensions



Specifications

PROVIDER MODE PORTS

Fixed port	4×1000 Base-X, 16×10/100/1000 Base-T
Management Port	Support Console
Power interface	Phoenix terminal, dual power input PWR,
LED Indicators	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

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 < 18W PoE < 258W

POE SUPPORT (OPTIONAL)

PoE ports	1-16
PoE protocol	802.3af, 802.3at
Pin assignment	1,2+ 3,6-
PoE management	Support

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

LAYER 2 SWITCHING

Switching capacity	56G
Packet forwarding rate	29.76Mpps
MAC address table	8K
Buffer	4.1M
Forwarding delay	< 10us
MDI/MDIX	Support
VLAN	256 ↑
GVRP	Support
Protocol VLAN	Support
Voice VLAN	Support
Surveillance VLAN	Support
MAC VLAN	Support
EtherChannel / 802.3ad	Support
LACP	Support
Interface speed	Support
Duplex mode	Support
Flow control	Support
Jumbo frame	Support
DHCP client	Support
SNTP client	Support
Port statistics	Support
Protected ports	Support
EEE	Support
Ring protocol	Support
LLDP	Support
Spanning Tree	Support STP/RSTP/MSTP
STP BPDU filter	Support
STP BPDU guard	Support
STP port fast	Support

LAYER 2 SWITCHING

IGMP snooping	Support
MLD snooping	Support
MVR	Support
DHCP-interface prioritized	Support
IP binding Device scanning	Support

LAYER 3 FUNCTION

IPv4 management address	Support
IPv6 management address	Support
Static routes IPv4	Supports 32 items
Static routes IPv6	Supports 32 items
ARP	Support
Loopback interface	Support
DHCP server	Support
DNS server	Support

CONVERGENCE

ACL	Support MAC standard/extended ACL Support IPv4 standard/extended ACL Support IPv6 standard/extended ACL Support L4-layer ACL
QoS	Support QoS re-tagging Support port trust Support port rate limiting Support egress queue rate limiting Support SP and WRR scheduling algorithms Support CoS mapping, DSCP mapping, IP-priority mapping
Management channel	Support
configuration AAA authentication	Support
802.1X authentication	Support
MAC-based authentication WEB-	Support
based authentication	Support
DoS attack prevention	Support
Dynamic ARP inspection	Support
DHCP snooping	Support

EQUIPMENT DIAGNOSIS

RAM log	Support
Flash logs	Support
Port mirroring	Support
Ping	Support
Traceroute	Support
Electrical-interface testing	Support
Optical-module information	Support
(DDM) UDLD protocol	Support

ENVIRONMENT

Operating temperature	-40°C ~ +75°C
Storage temperature	-40°C ~ +85°C
Relative humidity	5% ~ 95% (non-condensing)
Thermal methods	Fanless, natural cooling
MTBF	100,000 hours

MECHANICAL DIMENSIONS

Product size	161 × 104 × 78.5mm
Installation	DIN-rail
method Weight	1KG

EMC & INGRESS PROTECTION

IP Level	IP40
Surge protection – power	Common mode 4KV, differential mode 2KV
Surge protection – Ethernet	Common mode 4KV, differential mode 2KV
ports Anti-static interference	Contact 8KV, air-discharge 15KV
(ESD) Free fall	0.5m

STANDARDS COMPLIANCE

Standards compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000T 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 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 783 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 2616 HTTPS ITU-T G.8032 ERPS Ring
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AUTHENTICATION

Authentication

CE / FCC / RoHS

ACCESSORIES

Accessories

Device, terminals, specification,
certificate Adapter (optional)

OPTIONAL MODEL

NW-ISM-4GX16GT-C

4 Gigabit SFP optical interfaces, 16×10/100/1000M electrical ports

NW-ISM-4GX16GP-C

4 Gigabit SFP optical interfaces, 16×10/100/1000M electrical ports, supporting PoE & PoE+