NEO WAVE

OverView

NW-ISM-08GT-C

L2 Managed Industrial Ethernet Switches

The **NW-ISM-08GT-C** 8-port managed industrial Gigabit Ethernet switch delivering rugged reliability for harsh environments. Features industrial-grade components with fanless cooling, wide temperature tolerance (-40°C to +75°C), and robust protection against power surges (8-15KV ESD).

Applications

- Railway and metro communication systems
- Smart city infrastructure networks
- Intelligent traffic management
- Outdoor surveillance systems
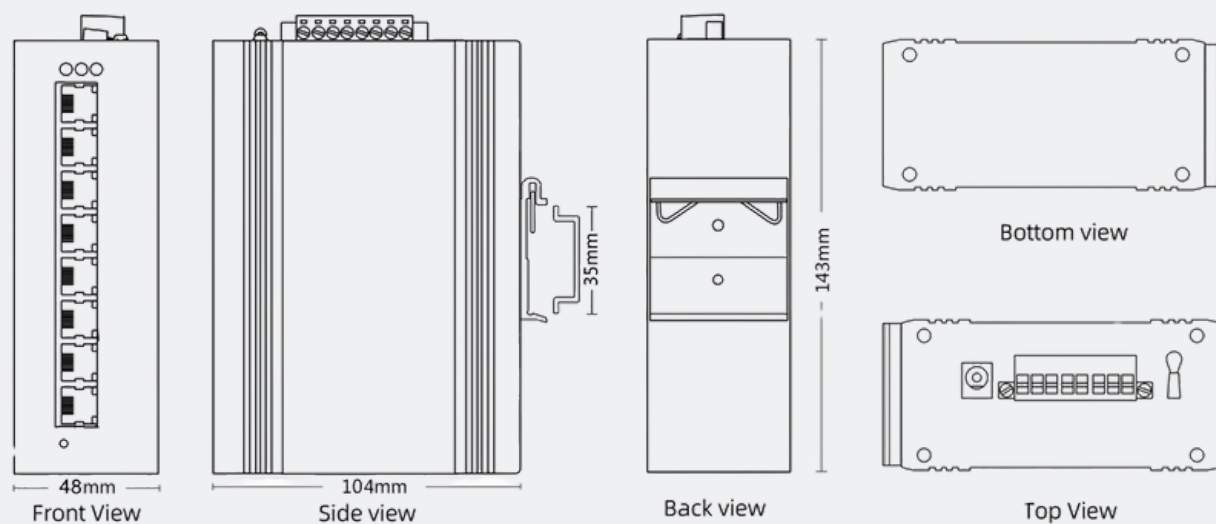- Industrial automation controls

Features

- 12-58V DC Input
- -40°C to +75°C Operation
- IP40 Fanless Design
- RoHS/FCC/CE Certified
- 8-15KV ESD Protection
- 100K Hours MTBF

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Dimensions

35mm

48mm
Front View

104mm
Side view

143mm
Back view

Bottom view

Top View

Specifications

Provider Mode Ports

Fixed port	8*10/100/1000 Base－T
Management Port	Business Port Management
Power interface	Phoenix terminal+DC socket, three power redundancy
LED Indicators	P1,P2,P3, Link/ACT LED

Cable Type & Transmission Distance

Twisted-pair	0-100m （CAT5e,CAT6）

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Specifications

Network Topology

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

Electrical Specifications

Input voltage	DC12-58V
Total Power consumption	<5W

Management

User Management	Support
Upgrade Firmware	Support
Configuration File Download/Upload	Support IPv4/IPv6
WEB management	Support

Environment

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

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Specifications

Layer 2 Switching

Switching capacity	16G
Packet forwarding rate	11.9Mpps
MAC address table	4K
Buffer	2Mbit
Forwarding delay	<10us
MDI/MDIX	Support
VLAN	32 strip
Ethernet channel	Only supports static
Interface Speed	Support
Duplex Mode	Support
Flow Control	Support
Jumbo frame	Support 10Kbytes
DHCP Client	Support
Port Statistics	Support
EEE	Support
Loop inspection/Loop prevention	Support
Spanning tree	Support STP/RSTP/MSTP
IGMP Snooping	Support
Restore factory settings	Support

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Specifications

Mechanical Dimensions

Product size	48*104*143mm
Installation Method	DIN-rail
Weight	0.54KG

EMC&INGRESS PROTECTION

Surge protection of Power	Common mode 4KV, differential mode 2KV
Surge protection of Ethernet port	Common mode 4KV, differential mode 2KV
ESD	Exposure to 8K, air at 15K
Free fall	0.5m

Convergence

QoS	Support port speed limit Support export queue speed limit

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Specifications

Standards Compliance

Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000T IEEE 802.3x flow control and back pressure 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 RFC 791 IP RFC 2068 HTTP

Authentication

Authentication	CE/FCC/RoHS

Accessories

Accessories	Device, Terminals, Specification, Certificate Adapter(optional)

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