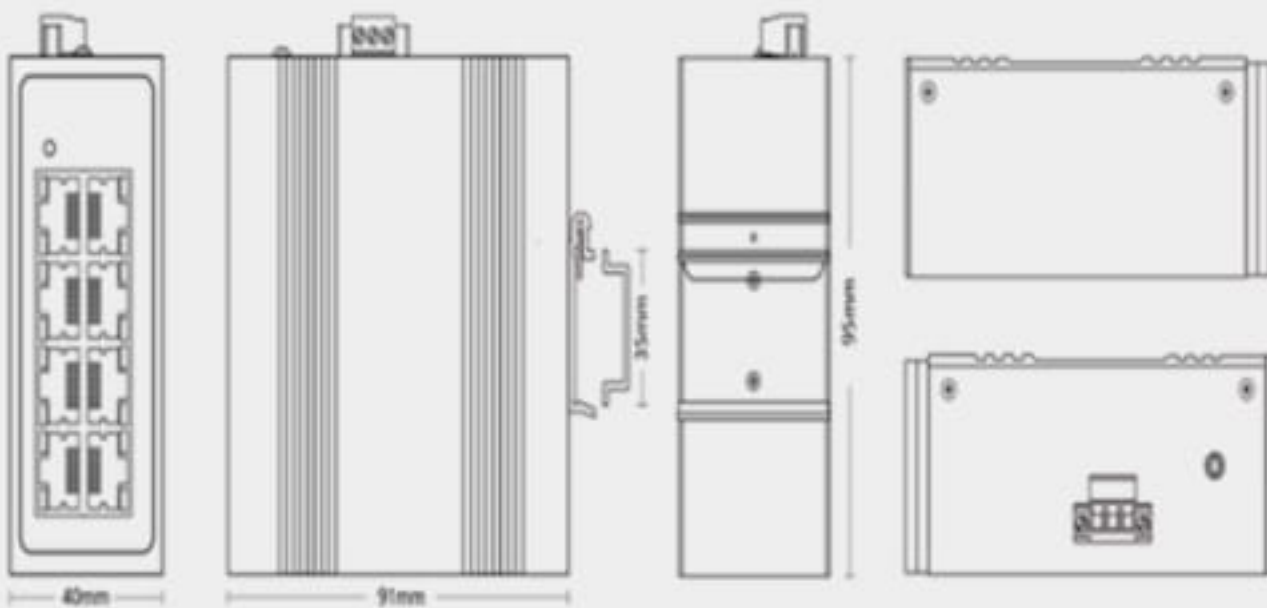# NEO WAVE®

Overview :

The NW-IS-8Tx Industrial Ethernet Switch is an 8-port unmanaged switch designed for industrial applications. Its fanless heat dissipation circuit design and robust construction, utilizing 50% Aluminum and 50% Iron, ensure high/low temperature resistance and lightning protection, contributing to reliable and safe industrial networks. Ideal for hars environments like rail transit, safe city, intelligent transportation,and outdoor monitoring, this switch excels in providing industrial-grade quality.

NW-IS-8TX :

Dimensions :

Applications:

- Rail Transit
- Safe City Deployments
- Intelligent Transportation Systems
- Outdoor Monitoring Stations
- Harsh Industrial Environments

Feature :

- **Chipset Excellence:** Powered by the Marvell Industrial Chip, ensuring outstanding performance.
- **Dual Power Redundancy:** Incorporates a dual power input system (12V~48V DC), enhancing system reliability and uptime.
- **Failover Functionality:** Automatic activation of hardware failover ensures uninterrupted operation if one power supply fails.
- **Robust Construction:** Built with a durable combination of 50% Aluminum and 50% Iron.
- **Fanless Design:** The fanless construction adds to reliability while conforming to IP40 protection standards.

NEO WAVE®

Specification :

Provider Mode Ports

Fixed port	NW-IS-8Tx
Power interface	Power interfacePhoenix terminal, redundant dual powersupply
LED Indicators	PWR, OPT, NMC, ALM

Cable Type & Transmission Distance

Twisted-pair	0-100m （CAT5e,CAT6)
Monomode optical fiber	/
Multimode optical fiber	/

NetworkTopology

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

Environment

Operating temperature	-30℃~+75℃
Storage temperature	-30℃~+75℃
Relative humidity	5%~95% non-condensing
Thermal methods	Fanless, natural cooling
MTBF	100,000 hours

Electrical Specifications

Input voltage	Input voltage DC12-58V(Non-PoE), DC48~58V(PoE)
TotalPower consumption	<6W(Non-PoE);<246W(PoE)
Voltage Alarm	Support

Layer 2 Switching

Switching capacity	1.8G
Packet forwarding rate	1.33Mpps
MAC address table	2K
Buffer	512K
Forwarding delay	<5us
MDX/MIDX	support
Flow control	Not support
Jumbo frame	2K bytes
BSR	BSR support

Mechanical Dimensions

Product size	95X90X41mm
Installation Method	DIN-rail
Weight	0.35KG around

EMC & Ingress Protection

IP Level	IP40
Surge protection of Power	IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)
Surge protection of Ethernet port	Surge protection of Ethernet port IEC 61000-4-5 Level 3 (4KV/2KV) (10/700us)
ESD	IEC 61000-4-2 Level 4 (8K/15K)

Authentication

Authentication	CCC, CE, FCC, RoHS

Accessories

Accessories	Device, Terminals, Specification, Certificate, power adapter(optional)

PoE Support

PoE port	1~8
PoE Protocol	802.3af, 802.3at
Pin Assignment	1,2,3,6
PoE Mode	Standard & non-standard are supported

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