

NSD-800



Industrial 8-Port Fast Ethernet Switches with Fiber Connectivity

Panel Mounting Bracket



Benefits:

- Fast Ethernet switch with 8 10/100Mbps copper ports and optional fiber ports
- Wide operating temperature range for temperature critical environment
- Support DIN rail mounting and panel mounting
- Provide two power input types to meet more application needs
- Accept wide power input voltage range for application flexibility
- Industrial-rated Emission and Immunity performance

Key Features:

- 8 10/100M ports support auto-negotiation and auto-MDI/MDI-X configuration
- Port 7 and Port 8 provide either copper or fiber connection (model dependent)
- Provides wire speed store-and-forward switching
- Supports IEEE 802.3x flow control for full-duplex operation
- Supports Back-pressure flow control for half-duplex operation
- Provides Far End Fault function on the fiber ports

Specifications:

Standard	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, 100Base-FX	
Network Ports	8 RJ-45 10/100Mbps auto-negotiation, auto-MDI/MDI-X ports 2 100Mbps 100Base-FX ports (model dependent) (Port 7 and Port 8 provide dual connectivities, either copper or fiber.)	
Network Cables	10Base-T: Cat. 3, 4, 5 or higher up to 100m 100Base-TX: Cat. 5 or higher up to 100m 100Base-FX: MMF 50/125µm 60/125µm, SMF 9/125µm	
MAC Addresses	Table with 1K entries	
LEDs	Per unit:	Power, Management
	Per 10/100M port:	Link/Activity, 100M, Duplex/Collision status
	Per fiber port slot:	Link/Activity status status
Relay Output	Alarm:	Power failure
	Interface:	2 terminal contacts
	Spec.:	30VDC/1A max. or 120VAC/0.5A max.
DC Power Input	Screwed terminator block:	2 pairs of +/- contacts
	DC jack:	-D 6.3mm / + D 2.0mm
	Operating voltage range:	+7 ~ +30VDC
Power Consumption	7.3 watts (max.)	
Housing	Enclosed metal with no fan	
Dimension	140 x 106 x 40 mm (WxDxH)	
Mounting Support	DIN Rail mounting, Panel mounting	



EMI EMS Safety Environmental Tests:

Test	Standard	Specifications
FCC/EMI	FCC Rule Part 15	Class A
CE/EMC/EMI	EN55022, CISPR 22	Class A
CE/EMC/Harmonic	EN 61000-3-2	< 75 W
CE/EMC/VFF	EN 61000-3-3	Clause 5
CE/EMC/EMS	EN 55024	
ESD Test	IEC 61000-4-2	Contact: +/-8KV Air: +/-16KV
RS Test	IEC 61000-4-3	Strength: 10V/m
EFT/BURST	IEC 61000-4-4	+/-4KV
Surge Immunity	IEC 61000-4-5	Power: 4KV Signal: 0.5KV
CS Test	IEC 61000-4-6	Level 3
Magnetic Field Imm.	IEC 61000-4-8	50Hz 40A/m
Voltage Dips Imm.	IEC 61000-4-11	Interruption: C Dips: B
Safety	EN 60950, IEC 60950	
Dielectric Voltage	IEEE 802.3	TP, 1500VAC/60sec.
Insulation Resistance	IEEE 802.3	TP 500VDC/10Mohm
Cold Test	IEC 68-2-1 Test Ad	-20°C, 96hrs
Dry Heat Test	IEC 68-2-2 Test Bd	+70°C 40%RH 96hrs
Damp Heat Test	IEC 68-2-3	+60°C 90%RH 96hrs
Storage Test	IEC 68-2-48	-20°C 96hrs +85°C 40%RH 96hrs
Vibration Test	IEC 68-2-34	

Ordering Informations:

Model NSD-800-xxx	FX Ports	Ref. Distance	Operating Temperature
-1T	FX8 ST MMF	2km	-10 ~ 70°C
-1C	FX8 SC MMF	2km	-10 ~ 70°C
-1C1	FX8 SC MMF	2km	-20 ~ 70°C
-1SL2	FX8 SC SMF	20km	-20 ~ 70°C
-2T	FX7 ST MMF FX8 ST MMF	2km 2km	-10 ~ 70°C
-2C	FX7 SC MMF FX8 SC MMF	2km 2km	-10 ~ 70°C
-2C1	FX7 SC MMF FX8 SC MMF	2km 2km	-20 ~ 70°C
-2SL2	FX7 SC SMF FX8 SC SMF	20km 20km	-20 ~ 70°C
-C1SL2	FX7 SC MMF FX8 SC SMF	2km 20km	-20 ~ 70°C

Environment

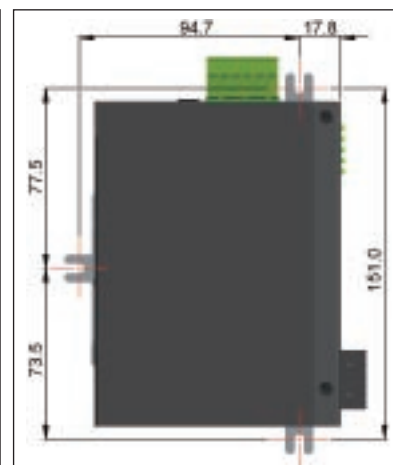
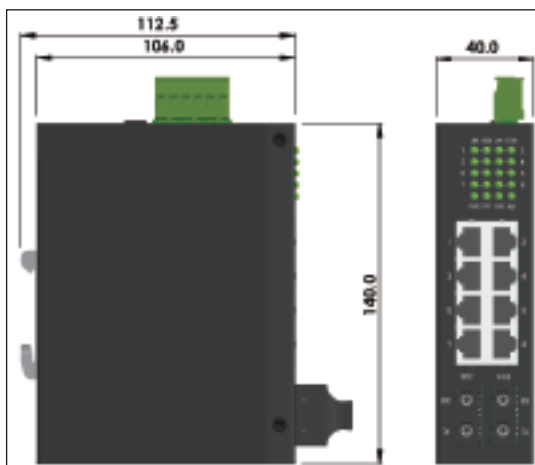
Operating temperature: -20°C ~ 70°C
Storage temperature: -20°C ~ 85°C
Relative Humidity: 5% ~ 95% non-condensing

Approval

FCC Class A
CE/EMC Class A, EN60950 safety

Fiber Optical Specifications:

Model	FX & Cable	Wavelength	Tx Power	Rx Sens.	Rx Max.
-1T	FX8: ST MMF	1310nm	-19 ~ -14 dBm	-31dBm	-14dBm
-1C	FX8: SC MMF	1310nm	-19 ~ -14 dBm	-31dBm	-14dBm
-1C1	FX8: SC MMF	1310nm	-20 ~ -14 dBm	-31dBm	0dBm
-1SL2	FX8: SC SMF	1310nm	-15 ~ -8 dBm	-30dBm	-7dBm
-2T	FX7: ST MMF FX8: ST MMF	1310nm 1310nm	-19 ~ -14 dBm -19 ~ -14 dBm	-31dBm -31dBm	-14dBm -14dBm
-2C	FX7: SC MMF FX8: SC MMF	1310nm 1310nm	-19 ~ -14 dBm -19 ~ -14 dBm	-31dBm -31dBm	-14dBm -14dBm
-2C1	FX7: SC MMF FX8: SC MMF	1310nm 1310nm	-20 ~ -14 dBm -20 ~ -14 dBm	-31dBm -31dBm	0dBm 0dBm
-2SL2	FX7: SC SMF FX8: SC SMF	1310nm 1310nm	-15 ~ -8 dBm -15 ~ -8 dBm	-30dBm -30dBm	-7dBm -7dBm
-C1SL2	FX7: SC MMF FX8: SC SMF	1310nm 1310nm	-20 ~ -14 dBm -15 ~ -8 dBm	-31dBm -30dBm	0dBm -7dBm



FCC Part 15, Class A
CISPR 22 Class A