

NX MEDIA CONVERTER

FEATURES

- 1000BASE-LX multi-mode fiber media converter supports distances up to 1km (0.62 mi)
- 1 x Gigabit RJ45 port and 1 x SC-type interface port
- Hardened IP50 metal enclosure with DIN-rail mounting
- Extreme operating temperature range of -40° to 167° F (-40° to 75°C)
- Fanless design for silent operation
- Power supply sold separately (model: NXPWRSPLY)



SPECIFICATIONS

CONSTRUCTION

- 1 x Gigabit RJ45 Auto-MDIX port
- 1 x 1000BASE-LX SC-type multi-mode fiber optic port
- 2 x DIP Switches (1: LFPT, 2: Switch/Converter mode)
- 3-Pin removable terminal block
- LED indicators
- IP50 metal case
- Size: 2.4"L x 2.3"W x 1.1"H (62mm x 58mm x 27mm)
- Weight: 5.2 oz. (148g)

MOUNTING

- DIN-rail mount
- Wall mount

ELECTRICAL

- Power
 - Input: 12-60V DC
 - Compatible power supply: NXPWRSPLY (sold separately)
 - Max. consumption: 2.148W
- Removable Terminal Block
 - 3-pin
 - Wire range: 1.52mm²
 - Solid wire (AWG): 16-28
 - Stranded wire (AWG): 16-28
 - Torque: 3 lb. - In / 0.2 Nm / 0.56 Nm
 - Wire strip length: 6-7mm.
- Grounding point
- 6kV ESD protection
- 6kV RJ45 surge protection

PERFORMANCE ¹

- Data Transfer Rate
 - Ethernet: 10Mbps (half duplex), 20Mbps (full duplex)
 - Fast Ethernet: 100Mbps (half duplex), 200Mbps (full duplex)
 - Gigabit: 2Gbps (full duplex)
 - Fiber: 2Gbps (full duplex)
- Data RAM Buffer: 64KB
- Switching Capacity: 4Gbps
- MAC Address Table: 1K entries
- Jumbo Frame: 16KB
- Forwarding rate: 2.98Mpps (64-byte packet size)
- MTBF: 5,109,029 hours @ 77°F (25°C)

FIBER

- Media: Multi-mode SC fiber optic connector
- Cable: 50 / 125 μm
- Wavelength: 1310 nm
- Optical Output Power (dBm): -9 ~ -3
- Optical Input Power (dBm): -24 ~ -3
- Power Budget: 15 dBm
- Distance: 1km (0.62 mi)

OPERATING ENVIRONMENT

- Operating Temperature: -40° to 167°F (-40° to 75°C)
- Operating Humidity: Max 95% non-condensing

STANDARDS

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3x
- IEEE 802.3z

CERTIFICATIONS

- CE
- FCC
- LVD
- Shock (IEC 60068-2-27)
- Freefall (IEC 60068-2-31)
- Vibration (IEC 60068-2-6)
- IEC 61000-4-2
- IEC 61000-4-4
- IEC 61000-4-5

WARRANTY

- 5-year limited warranty
- See website for additional information

¹ All references to speed are for comparison purposes only.

NX MEDIA CONVERTER

ORDERING GUIDE

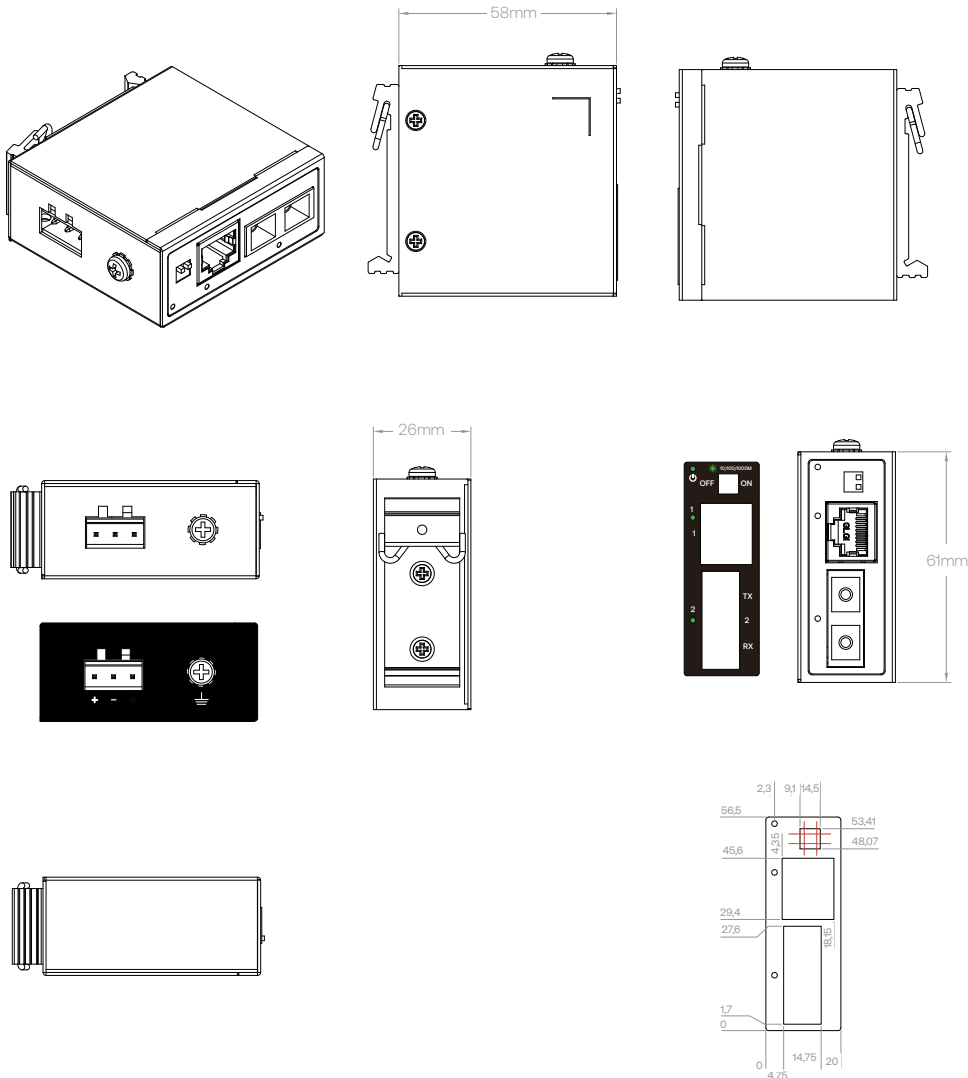
Example: NXMC-TI-FGSC

CATALOG #

Model	
NXMC-TI-FGSC	NX Media Converter, 1xRJ45 Port, 1x1000BASE-LX Multi-Mode SC Port, DIN-Rail & Wall Mount, 12-60VDC (Power Supply Not Included)

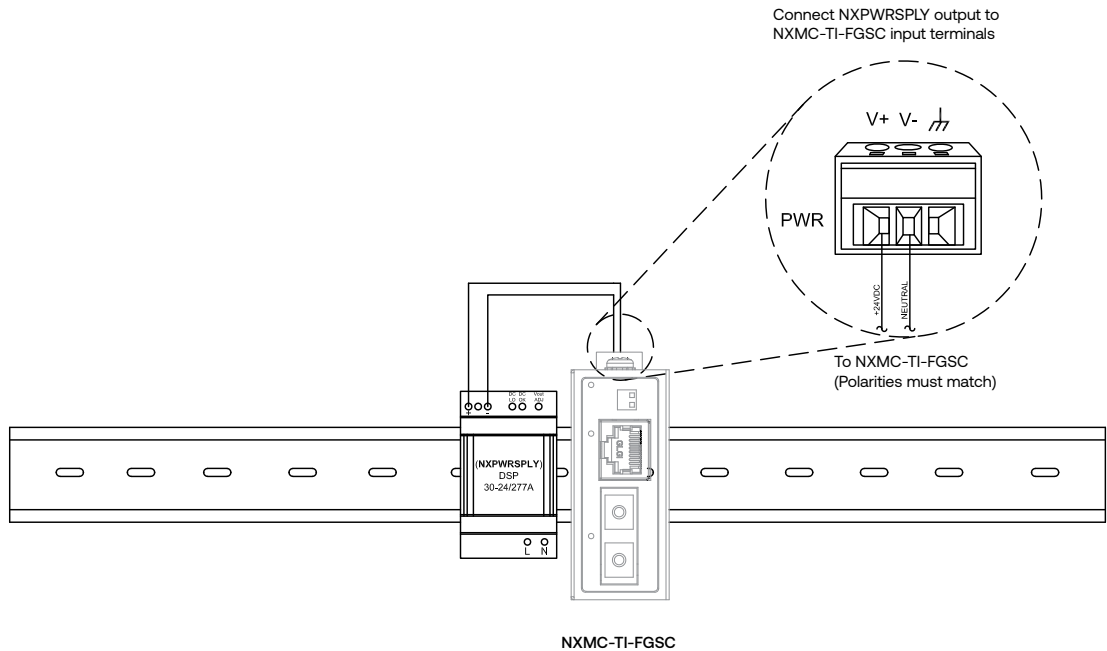
Power Supplies and Accessories	
NXPWRSPLY	NX DIN Rail DC Power Supply, Input: 100-277V ~ 15A 50-60Hz, Output: 24VDC, 30W Max
NXENC-D	NX Enclosure (15"x12"x4"), 2 x DIN Rails, Screw Cover

DIMENSIONS

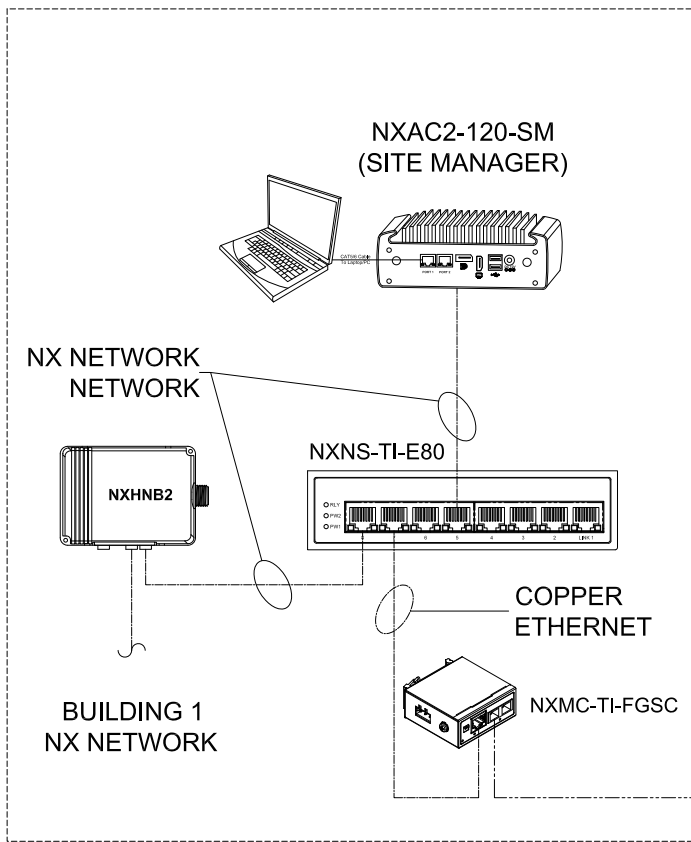


NX MEDIA CONVERTER

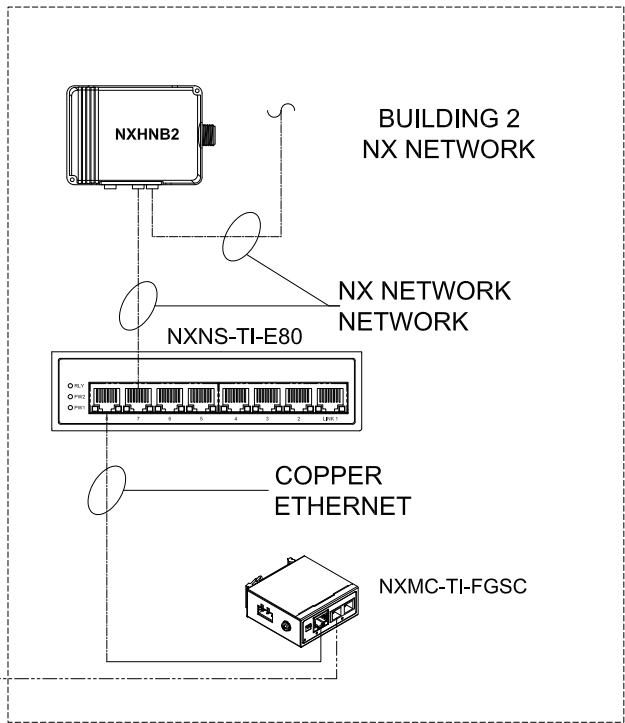
WIRING & APPLICATION DIAGRAMS



BUILDING 1



BUILDING 2



NX MEDIA CONVERTER

ADDITIONAL INFORMATION

LED Indicators

LED	Status	Description
PWR	Green - Solid	Device is powered on.
	Off	Device is powered off or not receiving power.
Port 1 (RJ-45 Ethernet Port)	Green - Solid	RJ-45 Ethernet connection established at 10Mbps/100Mbps/1Gbps.
	Green - Blinking	Data transmission.
Port 2 (SC Fiber Port)	Green - Solid	SC Fiber connection established at 100Mbps/1Gbps
	Green - Blinking	Data transmission.

DIP Switch

DIP	Status	Description
DIP 1 (LFPT)	ON	Link fault passthrough function enabled.
	OFF	Link fault passthrough function disabled.
DIP 2 (Mode)	ON	Converter mode.
	OFF	Switch mode.