

# NSM-200G-SFP

1000Base-T to 1000Base-X SFP Media Converter

# NSM-200LX/NSM-200SX/NSM-200SX2

1000Base-T to 1000Base-LX/SX Fiber Media Converter



## Features >>>

- Provides 1 x 1000 Mbps fiber port with SC type connector for 1000 Base-SX/LX device
- Supports wide operating temperatures from -30 °C ~ +75 °C
- Transparent to jumbo packets up to 10 KB
- Provides Link Fault Pass-through (LFP)
- Supports redundant +12 Vdc ~ +48 Vdc power input

## Introduction

ICP DAS's line of feature rich 10/100/1000 SFP Media Converters transparently connects copper to SFP for multimode or single mode fiber. Our 10/100/1000 Ethernet to Fiber Converters provide an economical path to extend the distance of an existing network, the life of non-fiber based equipment, or the distance between two devices. The pluggable fiber optics port allows for flexible network configurations using SFP transceivers supplied by ICP DAS or other manufacturers of MSA (Multi-source Agreement) compliant SFPs.

Gigabit Media Converters are also available with support for LFP (Link Fault Pass-through) feature.

## Specifications

Models	NSM-200SX	NSM-200SX2	NSM-200LX	NSM-200G-SFP
<b>Interface</b>				
<b>RJ-45 Port</b>	10/100/1000 Base-T(X) auto negotiation speed and auto MDI/MDI-X connection			
<b>Fiber Port</b>	Multi-mode: Up to 2 km; Single-mode: Up to 10 km			1000BaseSFP slot/100BaseSFP slot
<b>LED Indicators</b>	PWR1, PWR2, P-Fail, Link/Act, 100M, 1000M			
<b>Optical Fiber</b>	50/125 μm (Multi-mode)	50/125 μm (Multi-mode)	10/125 μm (Signal Mode)	-
<b>Distance</b>	0.55 km	2 km	10 km	-
<b>Wavelength</b>	850 nm	1310 nm	1310 nm	-
<b>Min. TX Output</b>	-9.5 dBm	-9 dBm	-9.4 dBm	-
<b>Max. TX Output</b>	-4 dBm	-1 dBm	-3 dBm	-
<b>Max. RX Sensitivity</b>	-17 dBm	-19 dBm	-20 dBm	-
<b>Min. RX Overload</b>	-3 dBm	-1 dBm	-3 dBm	-
<b>Power</b>				
<b>Input Voltage Range</b>	+12 VDC ~ +48 VDC (Non-isolated)			
<b>Power Consumption</b>	0.1 A @ 24 VDC			
<b>Mechanical</b>				
<b>Dimensions (W x L x H)</b>	DIN-rail mounting: 33 mm x 120 mm x 109 mm Wall mounting: 33 mm x 159 mm x 103 mm			DIN-rail mounting: 33 mm x 120 mm x 99 mm Wall mounting: 33 mm x 159 mm x 93 mm
<b>Installation</b>	DIN-rail mounting or wall mounting (optional)			
<b>Environmental</b>				
<b>Operating Temperature</b>	-30 °C ~ +75 °C			
<b>Storage Temperature</b>	-40 °C ~ +85 °C			
<b>Ambient Relative Humidity</b>	10% ~ 90% RH, non-condensing			

## Applications

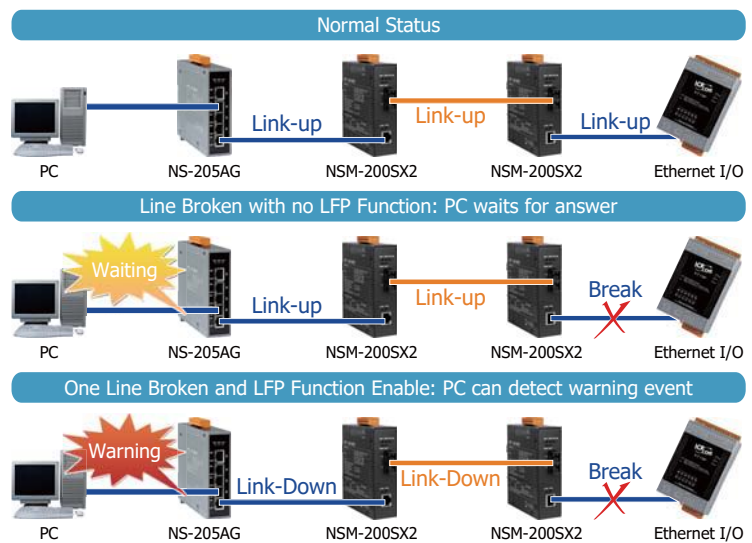
### LFP (Link Fault Pass-through) function

The LFP (link fault pass through) means the link fault on the one side (local side) media converter will be passed to the media converter on the other side (remote side).

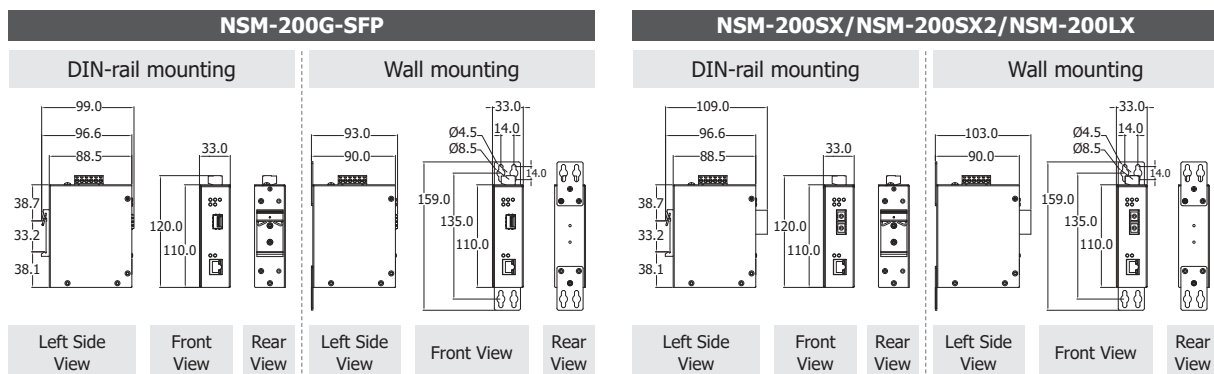
For example, the media converter on side A (local side) has the Ethernet link loss, the media converter will disconnect the link of transmission on fiber. The media converter on the side B (remote side) will know there is the linkage error and also disconnect the Ethernet link.

The LFP function can immediately alarm network administrators the problem of the link media and provide efficient solution to monitor the network, which can minimize the loss caused by the link problem.

ICP DAS's LFP fiber media converter has a DIP switch to enable or disable the LFP (link fault pass through) function.



## Dimensions (Units: mm)



## Ordering Information

NSM-200G-SFP CR	Industrial 1000 Base-T to 1000 Base-X Converter, SFP slot (RoHS)
NSM-200SX CR	Industrial 1000 Base-T to 1000 Base-SX Fiber Converter, Multi-mode 850 nm, 0.55 km, SC connector (RoHS)
NSM-200SX2 CR	Industrial 1000 Base-T to 1000 Base-SX Fiber Converter, Multi-mode 1310 nm, 2 km, SC connector (RoHS)
NSM-200LX CR	Industrial 1000 Base-T to 1000 Base-LX Fiber Converter, Single-mode 1310 nm, 10 km, SC connector (RoHS)

## Accessories

ASO-0015 CR	Wall Mount Kit (W:28mm) (RoHS)	
SFP-100M13M-FX	100Base-FX, Multi-mode 1310 nm, 2 km SFP module (Only for NSM-200G-SFP)	
SFP-1G85M-SX	1000Base-SX, Multi-mode 850 nm, 0.5 km SFP module (Only for NSM-200G-SFP)	
SFP-1G13M-SX2	1000Base-SX2, Multi-mode 1310 nm, 2 km SFP module (Only for NSM-200G-SFP)	
SFP-1G13S-LX	1000Base-LX, Single-mode 1310 nm, 10 km SFP module (Only for NSM-200G-SFP)	
SFP-1G13S-LX20	1000Base-LX20, Single-mode 1310 nm, 20 km SFP module (Only for NSM-200G-SFP)	