



# NSM 210C Combo Port Gigabit Unmanaged Industrial Ethernet Switch User Manual

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# NSM

**NSM-210C User's Manual**  
**8+2G Combo Port Gigabit Unmanaged Industrial Ethernet Switch**



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## Introduction:

The NSM-210C is 8 Port 10/100 Base copper and 2 Gigabit fiber optic/copper combo port Ethernet Switch, Supports Auto Negotiation , Auto MDI/MDI-X high-speed(100 Mbps) and high-distance transmissions . Apart from this, NSM-210C supports dual power and provides a wide +12 VDC ~ +48 VDC power range to fit all the common power standards found in industrial automation, without external power converters.

## Features:

- Up to 2 Gigabit uplinks for high bandwidth data aggregation SFP socket for Easy and Flexible Fiber Expansion
- Supports Auto Negotiation and Auto MDI/MDI-X
- Supports Dual +12 ~ 48 VDC power input and 1 relay output
- Supports operating temperatures from -25 ~ +75°C
- DIN-Rail, Wall Mounting (optional)

## Specifications:

Technology	
Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow Control
MAC Addresses	8K
Frame buffer memory	1 Mbit
Flow Control	IEEE802.3x flow control, back pressure flow control
Interface	
RJ-45 Ports	8x 10/100BaseT(X) , 2x 10/100/1000 BaseT(X) (Combo SFP) Auto negotiation speed, full/half duplex mode, and auto MDI/MDI-X connection
Fiber Ports	2x 1000Base SFP slot
LED Indicators	PWR1, PWR2, FAULT, SFP & Gigabit Act, 8-Port 10/100 Link and Act
Ethernet Isolation	1500 Vrms 1 minute
Power Input	
Redundant Input Range	+12 VDC ~ +48 VDC (Non-isolation)
Power Consumption	0.15A @ 24VDC idle without loading ; 0.25A @ 24VDC with full loading
Alarm Contact	One relay output with current carrying capacity of 1A @ 30 VDC
Protection	Power reverse polarity protection

Connector	6-Pin Removable Terminal Block (Power & Relay)
Mechanical	
Chassis	Metal with an IP30 ingress protection rating
Dimensions (W x L x H)	51 mm x 154 mm x 118 mm
Installation	DIN-Rail or Wall Mounting (with optional kit)
Environmental	
Operating Temperature	-25 °C ~ + 75 °C
Storage Temperature	-40 °C ~ + 85 °C
Ambient Relative Humidity	10 ~ 90% RH, non-condensing

### LED Indicator Functions:

LED	Color	Description
Ethernet Port	Green On	Act
	Yellow On	Link to 10/100 Mbps
Combo Port	Green On	Act to Port 9 SFP / copper
	Green On	Act to Port 10 SFP / copper
PWR1	Green On	This green LED is turned on when power is applied to the PWR1 input
PWR2	Yellow On	This yellow LED is turned on when power is applied to the PWR2 input
Fault	Red On	Loss PWR1 or PWR2 power input

#### Terminal block Indicator Functions:

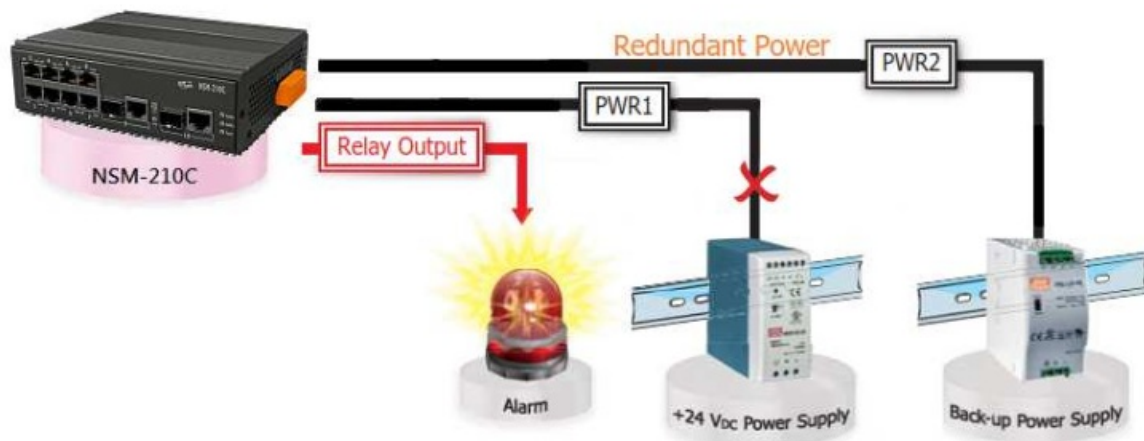
Pin	Function	Description
1	PWR1	Power1 input +12~+48VDC (V+)
2	GND1	Power1 Gnd (V-)
3	RL_COM	Power Loss Relay COM
4	RL_NO	Power Loss Relay Normally Open, If Power1 or Power2 Loss, Then this pin will connect to RL_COM
5	PWR2	Power2 input +12~+48VDC (V+)
6	GND2	Power2 Gnd (V-)

#### Combo:

The NSM-210C Port9 & Port10 is Combo port, This port can select SFP or copper, If a SFP port is being used, then the corresponding 1000BASE-T copper port is automatically disabled, When power turn on, if use SFP and copper simultaneously, then copper was disabled.

#### Redundant Power Input & Power fails Alarm:

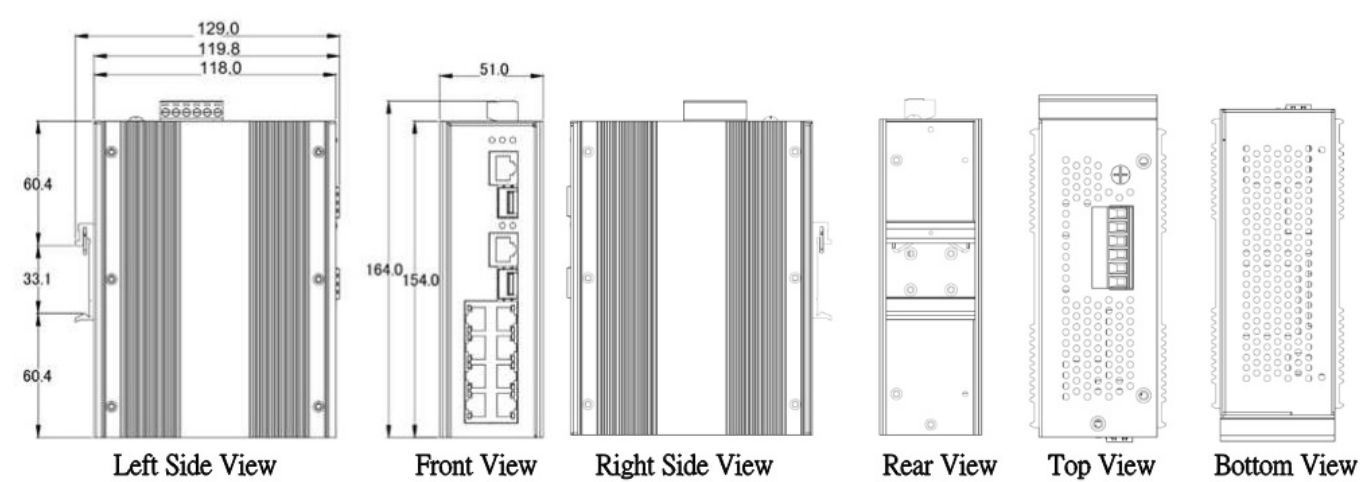
Both power inputs can be connected simultaneously to live DC power sources. If one power source fails, the other live source will act as a backup, and automatically supplies all of NSM-210C power needs.



Accessories(option):

DR-120-48	48 V/2.5 A, 120 W Single Output Industrial DIN Rail Power Supply
MDR-60-48	48 V/1.25 A, 60 W Single Output Industrial DIN Rail Power Supply
DR-120-24	24V/5 A, 120 W Single Output Industrial DIN Rail Power Supply
SDR-240-24	24 V/10 A, 240 W Single Output Industrial DIN Rail Power Supply with PFC Function

Dimensions (unit = mm):



NSM-210C User's Manual (Version 1.00, Apr/2018)

Documents / Resources

	<p><a href="#">NSM 210C Combo Port Gigabit Unmanaged Industrial Ethernet Switch</a> [pdf] User Manual 210C Combo Port Gigabit Unmanaged Industrial Ethernet Switch, 210C, Combo Port Gigabit U nmanaged Industrial Ethernet Switch, Gigabit Unmanaged Industrial Ethernet Switch, Unmanag ed Industrial Ethernet Switch, Industrial Ethernet Switch, Ethernet Switch, Switch</p>
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References

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