

Quick Install Guide

Industrial Gigabit Media Converter
EX-9543G-MM-M(SC/ST)
EX-9543G-SM-M(SC/ST)
EX-9543G-sfp port



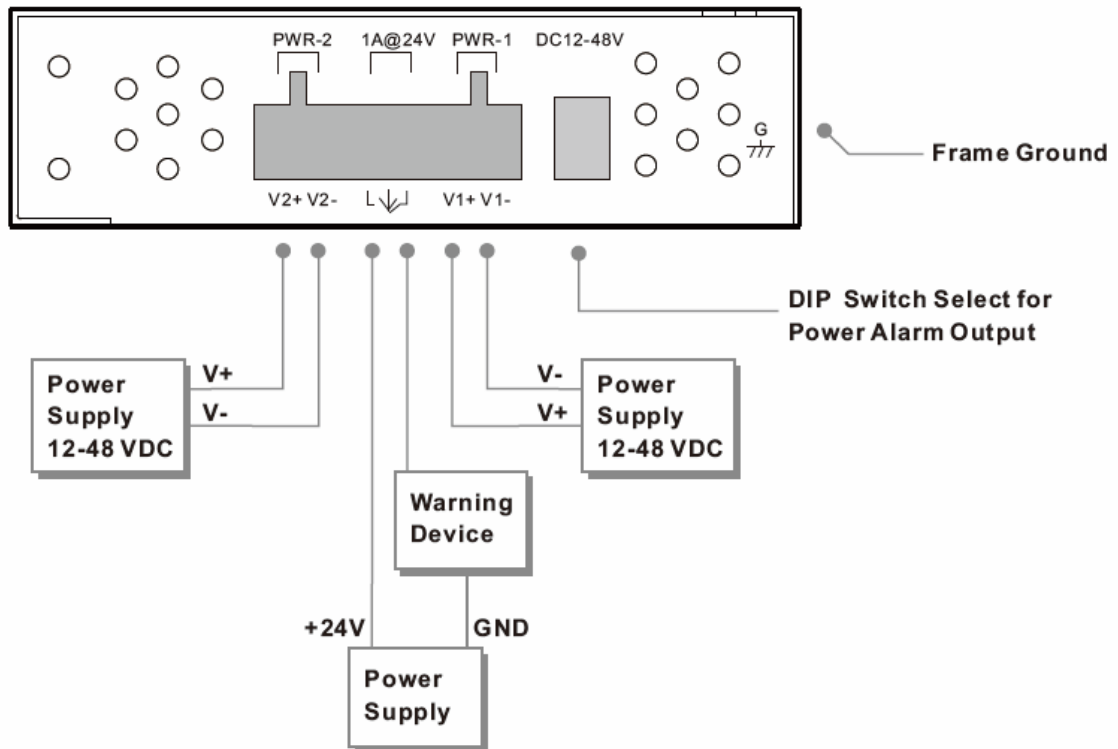
Introduction:

The Gigabit Media Converter are industrial media converters provide media conversion between 10/100/1000Base-T(X) and 100FX/1000Base-X fiber optical interface. The Gigabit Media Converter is rigid IP-30 housing design and supporting an operating temperature of -40 to 70°C. Therefore, The Gigabit Media Converter is reliable media converter for industrial application.

Features:

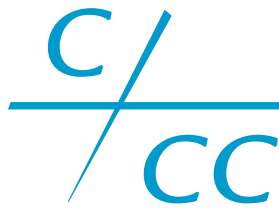
- Gigabit Media Converter supports 1 port 1000Base-X multi-mode / single-mode or SFP port
- Gigabit Media Converter provide relay output to carry capacity of 1A at 24VDC for power alarm output
- Wide operating temperature range from -40°C to 70 °C
- Rigid IP-30 housing design
- DIN-Rail and panel mounting enabled

Power Connection Guide:



DIP Switch Function

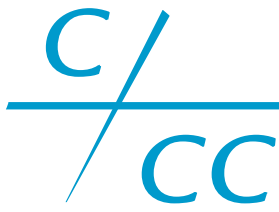
DIP-1	DIP-2	Description
OFF	OFF	Power failure relay alarm disabled
ON	OFF	PWR-1 failure, relay alarm enabled
OFF	ON	PWR-2 failure, relay alarm enabled
ON	ON	PWR-1 or PWR-2 failure, relay alarm enabled



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Specifications:

Interface	10/100/1000Base-T(X) & 1000Base-SX	10/100/1000Base-T(X) & 1000Base-LX	10/100/1000Base-T(X) & 1000Base-X SFP
Physical Ports			
10/100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX	1		
1000Base-SX Multi-mode Port (550M,850nm,SC connector)	1	-	-
1000Base-LX Single-mode Port (10KM,1310nm,SC connector)	-	1	-
1000Base-X SFP Port	-	-	1
Technology			
Ethernet Standards	IEEE IEEE IEEE IEEE 802.3 for 10Base-T, 802.3u for 100Base-T(X) 802.3ab for 1000Base-T 802.3z for 1000Base-X		
LED Indicators			
Power / Ready Indicator	Green: Power LED x2		
Fault Indicator	Yellow: Indicate power failure		
10/100/1000TX RJ45 Port Indicator	Green for port Link/Act.Amber for 100Mbps indicator		
1000X Port Indicator	Green for port Link/Act		
Fault contact			
Relay	Relay output to carry capacity of 1A at 24 VDC		
Dip switch	Relay output function enable / disable power failure alarm		
Power			
Input power	Dual 12~48 VDC power inputs in 6-pin terminal block		
Power consumption(Typ.)	3.5 Watts		
Reverse polarity protection	Present		
Overload current protection	Present		
Physical Characteristic			
Enclosure	IP-30		
Dimension (W x D x H)	26.1 mm(W) x 95 mm(D) x 144.3 mm(H)		
Weight (g)	400 g	400 g	380 g
Environmental			
Storage Temperature	-40 to 85 °C (-40 to 185°F)		
Operating Temperature	-40 to 70 °C (-40 to 158°F)		
Operating Humidity	5% to 95% Non-condensing		
Regulatory Approvals			
EMI	FCC Part 15, CISPR (EN55022) class A		



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EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Free Fall	IEC60068-2-32
Safety	EN60950-1

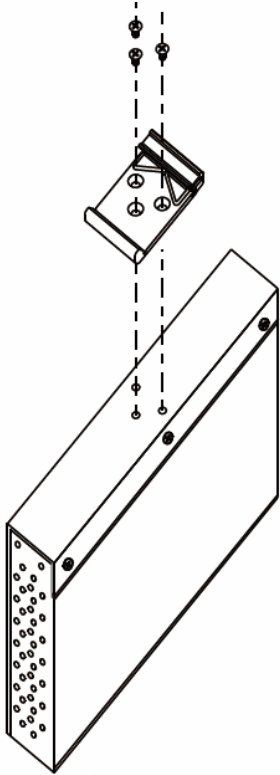
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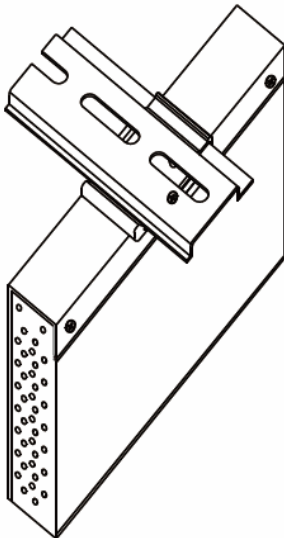
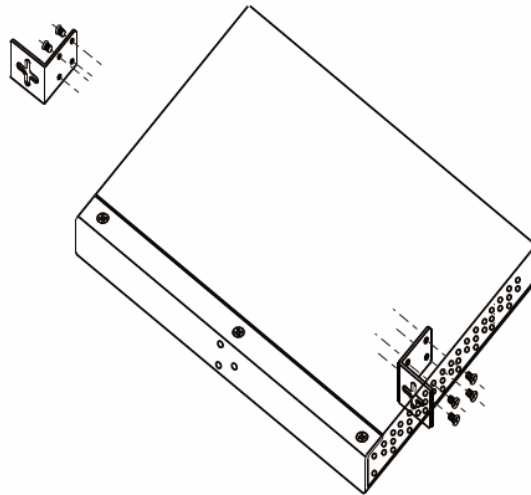
Installation:

● **Gigabit Media Converter**

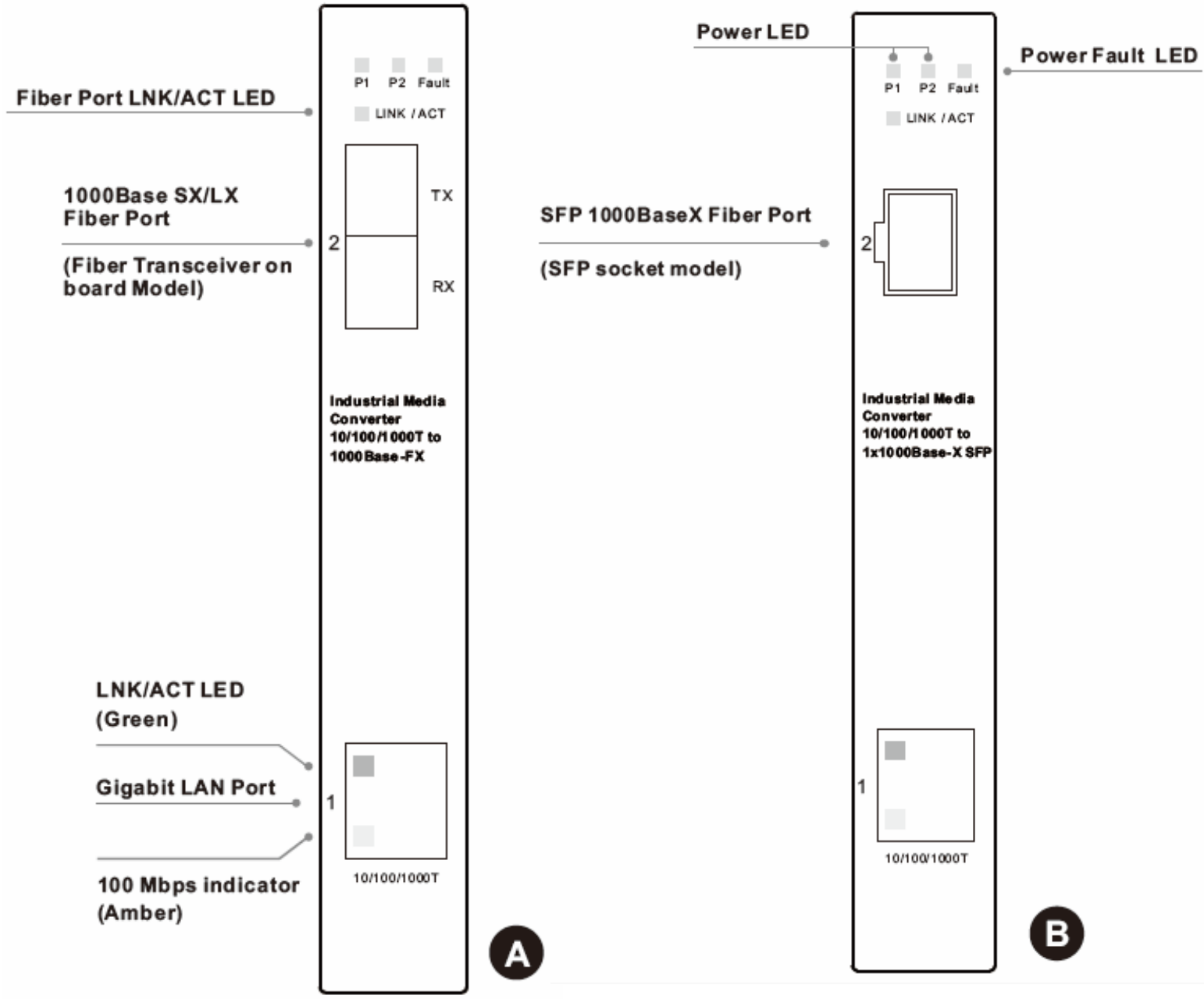
■ **DIN-Rail Install Step**



■ **Wall-mounted Install Step**

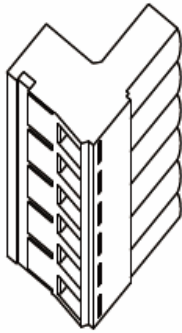


Front Panel:



Accessory:

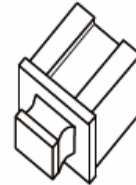
① 6-Pin Terminal block



② Dust Cover (RJ-45)



③ Dust Cover (SFP)



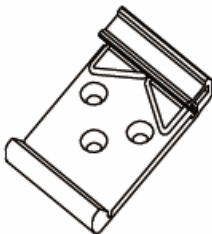
④ Screw (M3 X3)



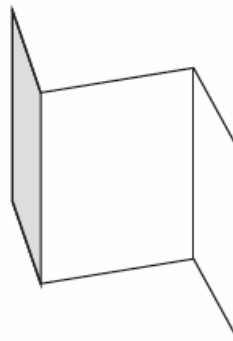
⑤ Wall-mounted kit (for Slim Type)



⑥ 25mm DIN-Rail kit



⑦ QIG



Packing List:

● **1000BaseX Media Converter**

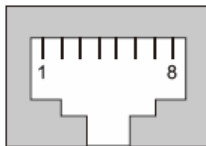
Interface	Front Panel	Model Description	Accessory
10/100/1000T & 1000 SX	A	Industrial Gigabit media converter with 1x 10/100/1000 T and 1x1000 SX (Multi-mode)	①X 1, ②X 1, ④X 8, ⑤X 2, ⑥X 1, ⑦X 1
10/100/1000T & 1000 LX	A	Industrial Gigabit media converter with 1x 10/100/1000 T and 1x1000 LX (Single-mode)	①X 1, ②X 1, ④X 8, ⑤X 2, ⑥X 1, ⑦X 1
10/100/1000T & 1000 SFP	B	Industrial Gigabit media converter with 1x 10/100/1000 T and 1x1000 SFP	①X 1, ②X 1, ③X 1, ④X 8, ⑤X 2, ⑥X 1, ⑦X 1

Communication Connections:

● **1000Base-T Ethernet Port Connection**

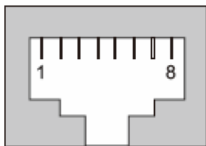
■ **RJ45 (8-pin, MDI) Port Pinouts**

Pin	MDI
1	BI_DA+
2	BI_DA-
3	BI_DB+
4	BI_DC+
5	BI_DC-
6	BI_DB-
7	BI_DD+
8	BI_DD-

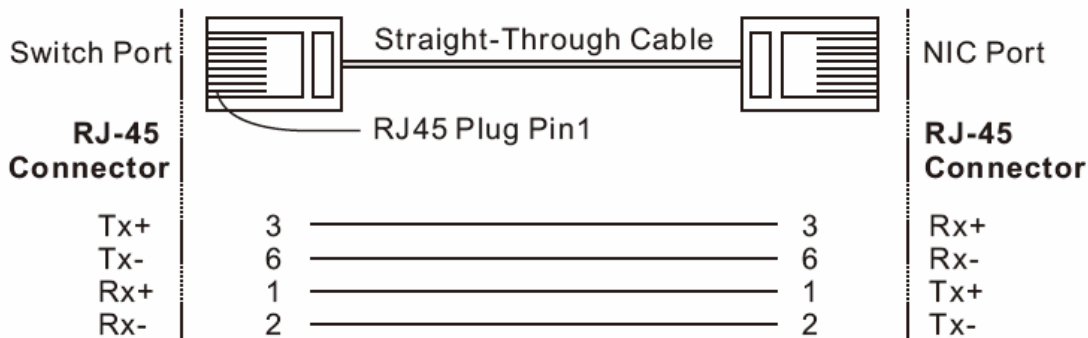


■ **RJ45 (8-pin, MDI-X) Port Pinouts**

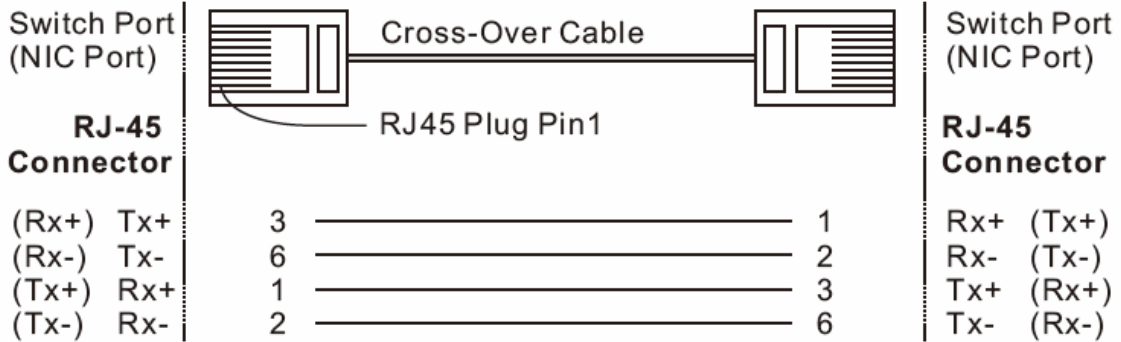
Pin	MDI-X
1	BI_DB+
2	BI_DB-
3	BI_DA+
4	BI_DD+
5	BI_DD-
6	BI_DA-
7	BI_DC+
8	BI_DC-



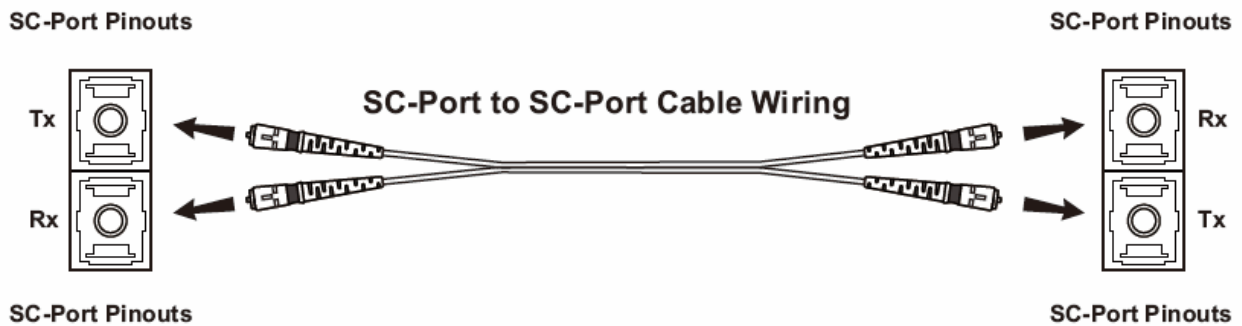
■ **RJ45 (8-pin) to RJ45 (8-Pin) Straight-Through Cable Wiring**



■ RJ45 (8-pin) to RJ45 (8-Pin) Cross-Over Cable Wiring



● 1000BaseSX/ LX Port Connection



● 1000Base-X SFP Port Connection

