Quick Installation Guide

DIS-M100G-SW

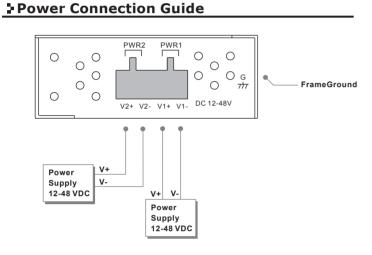
Industrial Gigabit Ethernet to Fiber Media Converter

Introduction

DIS-M100G-SW is a cost effective solution for the conversion between 100/1000Base-T(X) and 100/1000Base-X interface, it allows you to extend communication distance by optical fiber. DIS-M100G-SW supports MDI/MDIX auto detection, so you don't need to use crossover wires. DIS-M100G-SW with wide operating temperature range from -40 $\,\sim\,70^{\circ}\text{C}$ and accepts a wide voltage range from dual 12 \sim 48 VDC power inputs, so it is suitable for harsh operating environments. Therefore, the $\mbox{\bf DIS-M100G-SW}$ is reliable media converter and can satisfy most demand of operating environment.

Features

- > Supports 1 port 100/1000Base-T(X) auto-negotiation and auto-MDI/MDI-X
- > Support Ethernet to SFP port signal conversion
- \geq Provided DIP-Switch to set operation speed of SFP port
- > High reliability and rigid IP-30 housing > DIN-Rail and wall-mount enabled



Specifications

Model	DIS-M100G-SW		
Physical Ports			
100/1000 Base-T(X) Port in RJ45 Auto MDI/MDIX	1		
100/1000Base-X SFP port	1		
Technology			
Ethernet standards	IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3x for Flow control IEEE 802.3 ab for 1000Base-T IEEE 802.3 z for 1000Base-X		
DIP-Switch 1/2	DIP-Switch 1 (ON) and DIP-Switch 2 (ON) : SFP speed setting to 100Mbps DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF) : SFP speed setting to 1000Mbps		
LED Indicators			
Power indicator	Green: Power LED x 2. (ON) power input on-line / (OFF) power input off-line		
100/1000Base-T(X) RJ45 port indicator	LED for Link/Act and Speed indicator: Green on only: 1000Mbps Link/Act-(ON) Link up / (Flash) Acting / (OFF) Link down Green and Amber on: 100Mbps Link/Act-(ON) Link up / (Flash) Acting / (OFF) Link down		
	*Note: If amber on only : Link up at 10Mbps is not a valid mode		
100/1000Base-F(X) fiber port indicator	Green for fiber port Link/Act - (ON) Link up / (Flash) Acting / (OFF) Link down		
Power			
Input power	Dual 12~48 VDC power input at 4 pin terminal block		
Power consumption(Typ.)	3.6 Watts		
Overload current protection	Present		
Reverse polarity protection	Present		
Physical Characteristic			
Enclosure	IP-30		
Dimension (W x D x H)	26.1 (W) x 70 (D) x 95 (H)mm (1.03 x 2.76 x 3.74 inch)		
Weight (g)	190 g (0.42 lb)		
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		
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		
Free Fall	IEC60068-2-32		
Vibration	IEC60068-2-6		
Safety	EN60950-1		

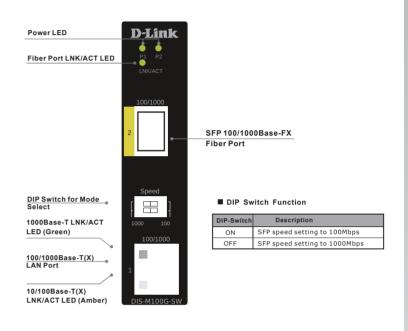
Connections of Media converter



→ Working Status

Ethernet Port Status	SFP Fiber Port Status	Working status
100Mbps	100Mbps	Valid
100Mbps	1000Mbps	Invalid
1000Mbps	1000Mbps	Valid
1000Mbps	100Mbps	Invalid

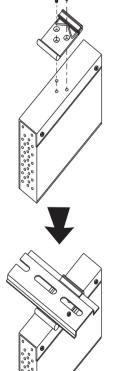
> Front Panel

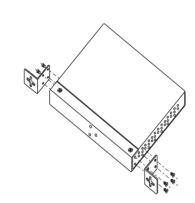


Installation

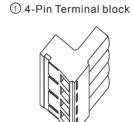








Accessory





2 Dust Cover (RJ-45)



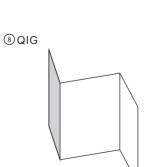


3 Dust Cover (SFP)











7 Power Cable with power jack

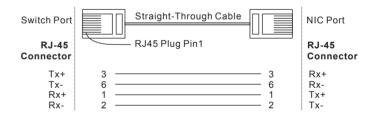
Model name	Model Description	Accessory
DIS-M100G-SW	Gigabit Industrial Unmanaged Media Converter with 1x100/1000Base-T(X) and 1x100/1000Base-X, SFP socket	①X1, ②X1, ③X1, ④X8, ⑤X2, ⑥X1, ①X1, ⑥X1

Communication Connections

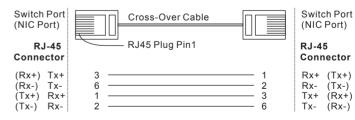
100Base-TX Ethernet Port Connection

RJ4	5 (8-pin,	MDI) Port Pinouts	■ RJ4	15 (8-pin	, MDI-X) Port Pinouts
Pin 1 2 3 6	Single Tx+ Tx- Rx+ Rx-	8	Pin 1 2 3 6	Single Rx+ Rx- Tx+ Tx-	11111118

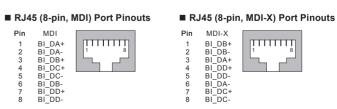
■ RJ45 (8-pin) to RJ45 (8-Pin) Straight-Through Cable Wiring



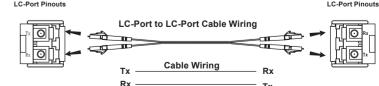
■ RJ45 (8-pin) to RJ45 (8-Pin) Cross-Over Cable Wiring



1000Base-T Ethernet Connection







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- Additional Information

You can refer to the user manual or visit http://support.dlink.com/ for more

Online Support
If there are any issues that are not in the user manual, please visit http://support.dlink.com/ which will direct you to your appropriate local D-Link support

Warranty Information Visit http://warranty.dlink.com/ to view the D-Link Warranty information.

→ Regulatory Statements

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Non-modification Statement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Caution

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Japan Voluntary Control Council for Interference Statement

この装置は、クラス A 情報技術装置です。 この装置を家庭環境で使用すると電波妨害を引き起こすこと があります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Japan Voluntary Control Council for Interference Statement

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI). If this equipment is used in a domestic environment, radio interference may occur, in which case the user may be required to take corrective actions.

此為甲類的資訊技術設備,在居住環境中使用時,可能會造成射頻擾動,在這種情況下,使用者會被要求採

Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measure

CE EMI Class A Warning

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

SAFETY INSTRUCTIONS

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to

consult the product user instructions for more details. Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e. touching grounded bare metal) before touching the

Do not attempt to service the product and never disassemble the product. For

some products with user replaceable battery, please read and follow the instructions in the user manual. Do not spill food or liquid on your product and never push any objects into the $\,$

openings of your product.

Do not use this product near water, areas with high humidity or condensation unless the product is specifcally rated for outdoor application Keep the product away from radiators and other heat sources

Always unplug the product from mains power before cleaning and use a dry lint

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