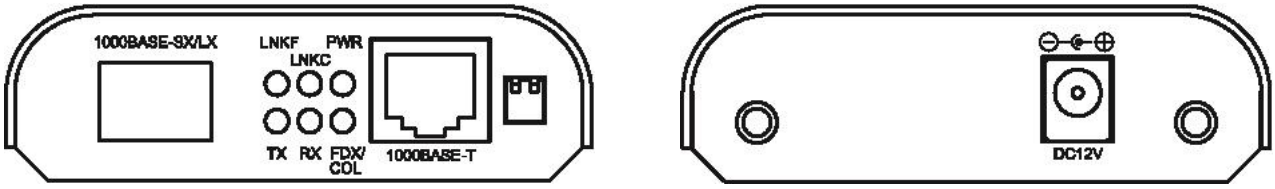
EM1020 Gigabit Ethernet Media Converter

This quick start guide describes how to install and use the Gigabit Ethernet media converter. The converter introduced here provides one channel media conversion solution.

Physical Description

Product Overview



This Gigabit Ethernet media converter is a plug-and-play device. Connect the supplied AC to DC power adaptor to the receptacle on the rear panel of the Gigabit Ethernet media converter, and then attach the plug into a standard AC outlet.

DIP Switch

DIP switch	Up (Default Setting)	Down	
Left-hand side	The fiber port auto detects duplex mode	Force the fiber port to full duplex mode	
Right-hand side	Disable LFPT	Enable LFPT	LFPT: link-fault-pass-through function

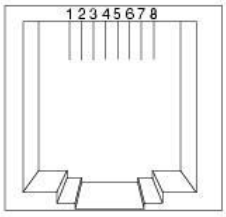
<Note> Power must be on/off after re-setting LFPT function.

The 1000Base-T and 1000Base-SX/LX Connectors

The 1000Base-T Connections

The following lists the pinouts of 1000Base-T port.

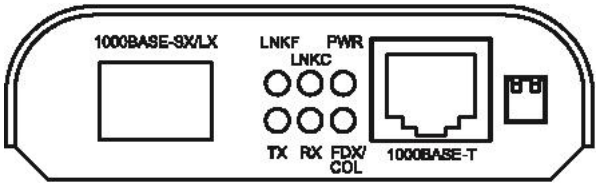
Pin	Label
1	TP0+
2	TP0-
3	TP1+
4	TP2+
5	TP2-
6	TP1-
7	TP3+
8	TP3-



The 1000Base-SX/LX Connections

The SFP socket for Gigabit fiber optic expansion.

The Port Status LEDs



LEDs	State	Indication
Power	Steady	Power feeding in
	Off	No power
LNKC	Steady	TX port: A valid network connection established. LNKC stands for LINK/Copper
	Off	No connection
LNKF	Steady	FX port: A valid network connection established. LNKF stands for LINK/Fiber
	Off	No connection
FDX/COL	Steady	Connection in full duplex mode FDX stands for FULL DUPLEX
RX	Steady	Receiving data
	Off	No reception
TX	Steady	Transmitting data
	Off	No transmission

Functional Description

- DIP switch configuration for “Link-Fault-Pass-Through”, fiber auto/force mode.
- 1000Mbps-Auto/Full-duplex, Auto-Negotiation, Auto-MDI/MDIX.
- SFP socket for Gigabit fiber optic expansion.
- Full wire-speed forwarding rate.
- 0.8A 12VDC external universal PSU.
- 0℃to 45℃(32℉ to 113℉) operating temperature range.
- Aluminum case.
- Supports Wall Mounting installation or use with media converter chassis system.

Unpacking

Open the carton and unpack the items. Your package should include an EM1020 media converter and this Quick Install Guide. If items are missing or damaged, notify your EtherWAN representative. Download the full manual at: https://www.etherwan.com