

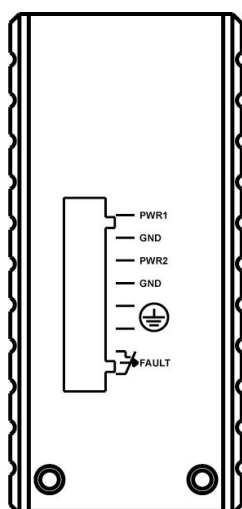
# Quick Start Guide



This quick start guide describes how to install and use the hardened media converter. This is the media converter of choice for harsh environments constrained by space.

Important: Note that XSNet Series manuals may cover multiple models. To establish if a particular feature or specification in this manual applies to the unit at hand, consult the datasheet of the given model.


## Physical Description

### The Terminal Block and Power Inputs



Terminal Assignments	
PWR1	Power Input 1 (10~48VDC)
GND	Power Ground
PWR2	Power Input 2 (10~48VDC)
GND	Power Ground
	Earth Ground
 → FAULT	1. The relay opens if PWR1 or PWR2 fails 2. The relay opens if the Port Link fails (When Link Down Detection is Enabled)

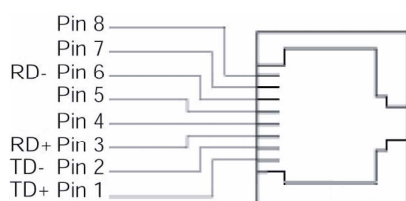
 DIP	LFP	TX		FX	LINK DOWN	
1	Enable	F. Mode	10M	H. Duplex	H. Duplex	ON
2	Disable	Auto Mode	100M	F. Duplex	F. Duplex	OFF

- DC Terminal Block Power Inputs: There are two pairs of power inputs can be used to power up this device. You need to have two power inputs connected to run the media converter, but the FAULT LED indicator will light up to remind that the power redundant system functions abnormal in case either PWR1 or PWR2 is dead. Media Converter, however, continues working normally even fault LED indicator lights up.

## The 10/100Base-TX and 100Base-FX/BX Connectors

### The 10/100Base-TX Connections

The following lists the pinouts of 10/100Base-TX ports.

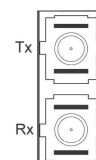


Pin	Regular Ports	Uplink port
1	Output Transmit Data +	Input Receive Data +
2	Output Transmit Data -	Input Receive Data -
3	Input Receive Data +	Output Transmit Data +
4	NC	NC
5	NC	NC
6	Input Receive Data -	Output Transmit Data -
7	NC	NC
8	NC	NC

### The 100Base-FX Connections

The fiber port pinouts

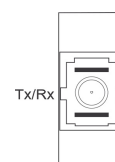
The Tx (transmit) port of device I is connected to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II.



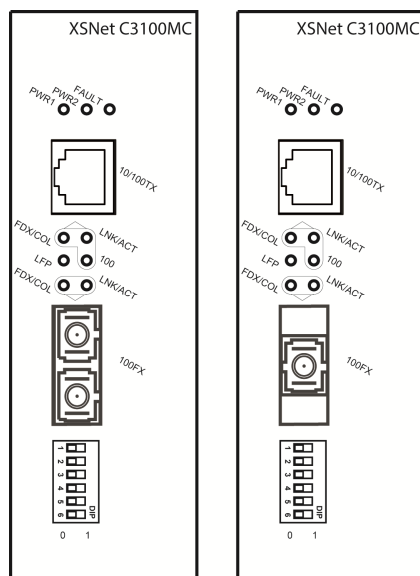
### The WDM 100Base-BX Connections

The fiber port pinouts

Only one optical fiber is required to transmit and receive data.



## The Port Status LEDs



LEDs	State	Indication
FAULT	Steady	Power redundant system or ports function abnormally
	Off	Power redundant system and ports function normally
PWR1 PWR2	Steady	Power on PWR stands for POWER
	Off	Power off
100 (Mbps)	Steady	Connection at the speed of 100Mbps
	Off	Connection at the speed of 10Mbps
LFP	Steady	LFPT function enabled
	Off	LFPT function disabled
LNK/ACT	Steady	Valid network connection established LNK stands for LINK
	Flashing	Transmitting or receiving data ACT stands for ACTIVITY
	Off	Neither valid network connection established nor transmitting/receiving data
FDX/COL	Steady	Connection in full-duplex mode FDX stands for FULL-DUPLEX
	Flashing	Collision occurred COL stands for COLLISION
	Off	Connection in half-duplex mode

## Functional Description

- Meets NEMA TS2 Environmental requirements: temperature, shock, and vibration for traffic control equipment.
- Meets EN61000-6-2 & EN61000-6-3 EMC Generic Standard Immunity for industrial environment.
- Supports 802.3/802.3u/802.3x. Auto-negotiation: 10/100Mbps, full/half-duplex. Auto MDI/MDIX.
- 100Base-FX: Multi mode/Single mode SC type. 100Base-BX: WDM Multi mode/Single mode SC type.
- One DIP switch for configuring link-fault-pass-through, fixed speed, full/half duplex, and link down alarm.
- Alarms for power and port link failure by relay output. Relay contact rating with current 1.5A @ 24VDC, 0.5A @ 120VAC.
- Operating voltage and Max. current consumption: 0.36A @ 12VDC, 0.18A @ 24VDC, 0.09A @ 48VDC. Power consumption: 4.32W Max.
- Power Supply: Redundant DC Terminal Block power inputs.
- Field Wiring Terminal: Use Copper Conductors Only, 60/75°C, 12-24 AWG torque value 7 lb-in.
- -40°C to 75°C (-40°F to 167°F) operating temperature range. Tested for functional operation @ -40°C to 85°C (-40°F to 185°F). UL1604 Industrial Control Equipment certified Maximum Surrounding Air Temperature @ 74°C (165°F).
- Supports Din-rail, Panel, or Rack Mounting installation.
- UL1604 Class I, Division 2 Classified for use in hazardous locations (applicable to versions with terminal block power option).
  - This equipment is suitable for use in Class I, Division 2, Groups A, B, C and D OR non-hazardous locations only.
  - WARNING – EXPLOSION HAZARD – Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous.
  - WARNING – EXPLOSION HAZARD – Substitution of components may impair suitability for Class I, Division 2.

## Assembly, Startup, and Dismantling

- Assembly: Place the media converter on the DIN rail from above using the slot. Push the front of the media converter toward the mounting surface until it audibly snaps into place.
- Startup: Connect the supply voltage to start up the media converter via the terminal block.
- Dismantling: Pull out the lower edge and then remove the media converter from the DIN rail.

