



## TMC-F Series

10/100 MBPS ETHERNET 2 PORT MEDIA CONVERTER  
1 CHANNEL: ELECTRICAL ↔ OPTICAL

### This manual serves the following Model Names:

TMC-FSTM1ACM-A  
TMC-FSTS1ACM-A  
TMC-FSTM1POEM-A  
TMC-FSTS1POEM-A  
TMC-FSTM1-B  
TMC-FSTS1-B  
TMC-FSCM1ACM-A  
TMC-FSCS1ACM-A  
TMC-FSCM1POEM-A  
TMC-FSCS1POEM-A  
TMC-FSCM1-B  
TMC-FSCS1-B  
TMC-FSFPPOE30M

The TMC-F series converts 10/100 Mbps Fast Ethernet from an electrical signal to an optical signal and back to an electrical signal. The electrical connection uses an RJ45 data connector.

Depending on the specific model in use, the optical connector is either a ST or SC, 1 or 2 Fibers, multimode (M) or singlemode (S), and the unit operates on either AC / DC or DC only power.

The TMC-F Series standard size units may be directly plugged into the SBP-C14 or SBP-C03 Racks or operated as a standalone module. The TMC-F-M small size units operate as standalone modules only.

FIGURE 1 - TMC-F SERIES STANDARD SIZE UNIT

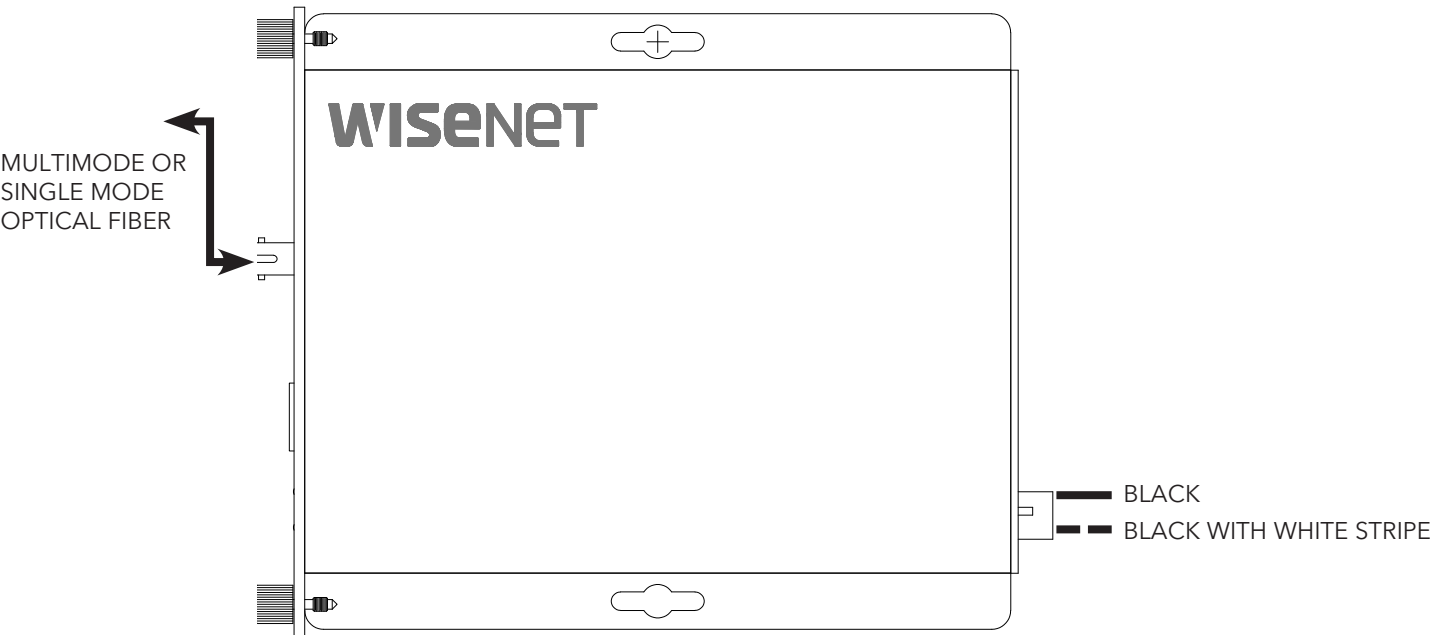


FIGURE 2 - TMC-F SERIES STANDARD SIZE UNIT

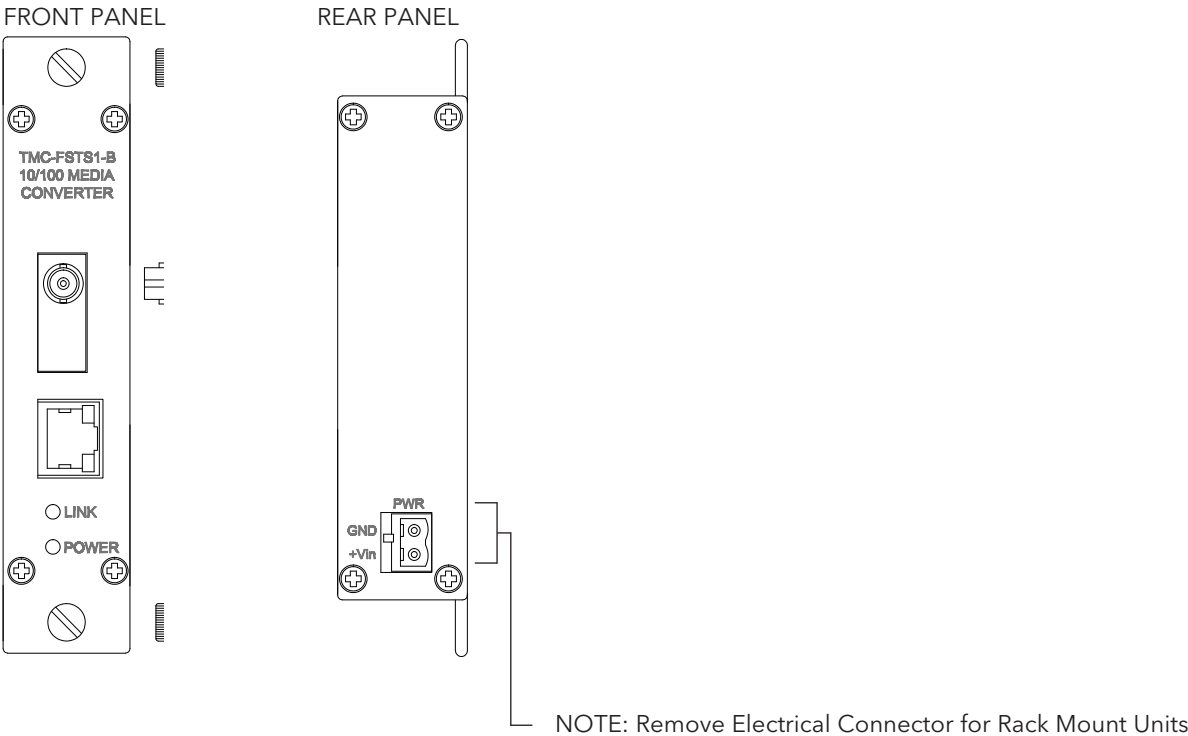


FIGURE 3 - TMC-F SERIES SMALL SIZE UNIT

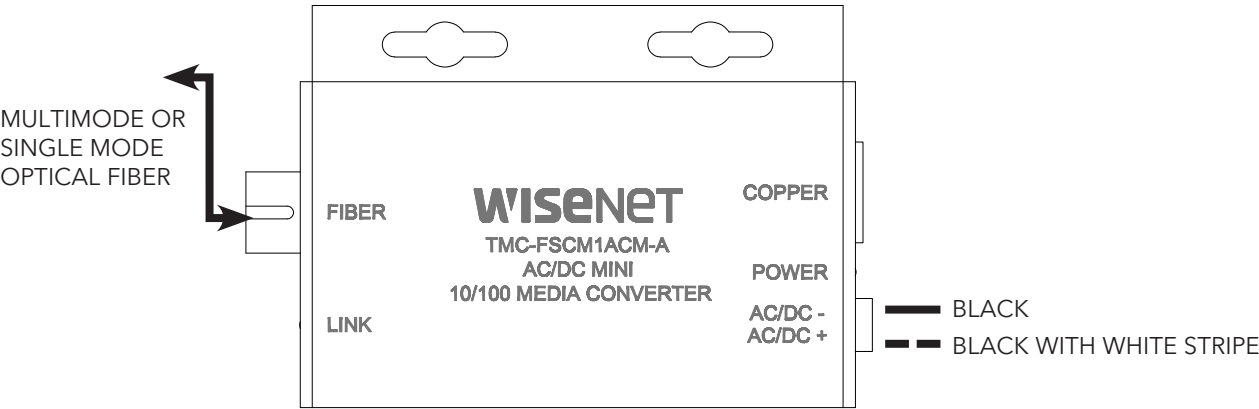


FIGURE 4 - TMC-F SERIES SMALL SIZE UNIT

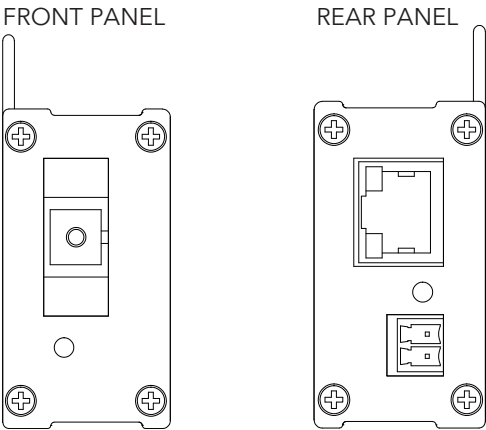


FIGURE 5 - TMC-F SERIES SMALL SIZE UNIT WITH 30 W PoE

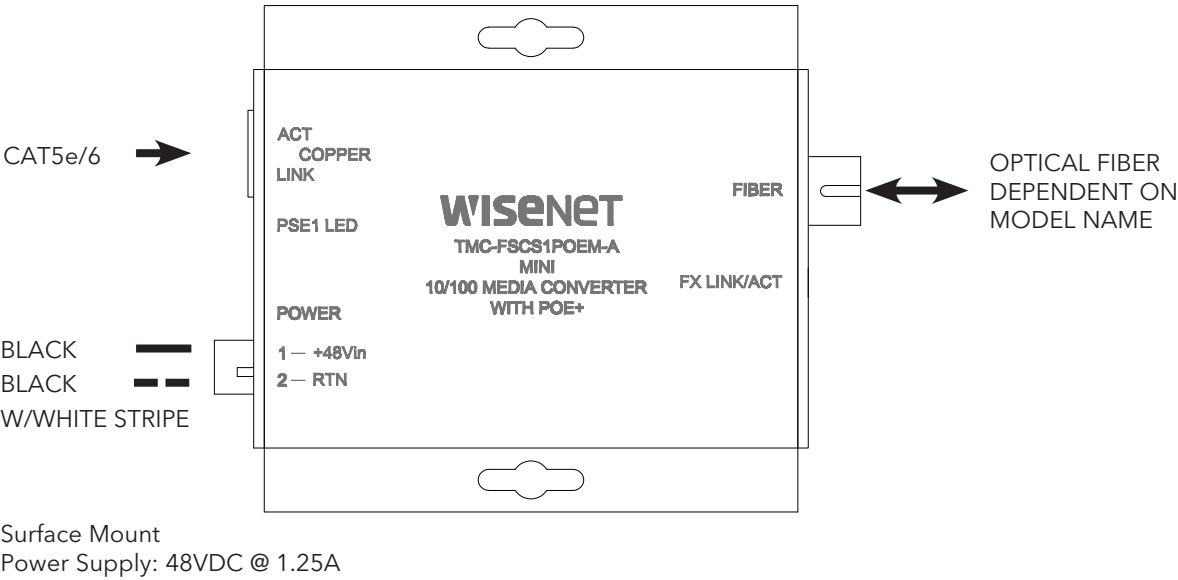


FIGURE 6 - TMC-F SERIES SMALL SIZE UNIT WITH 30 W PoE

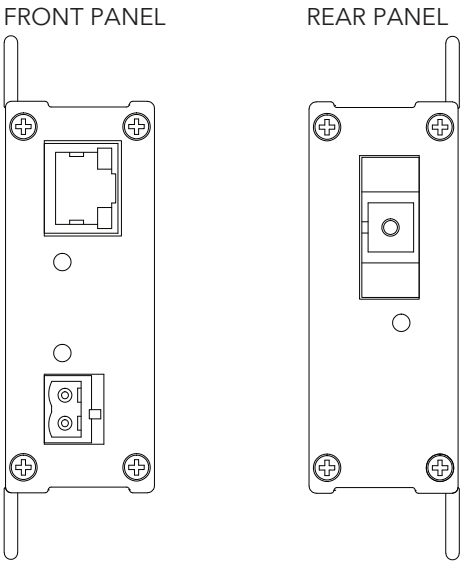


FIGURE 7- POSSIBLE ETHERNET CONFIGURATION

Ethernet IEEE 802.3 Network Element determined by user.

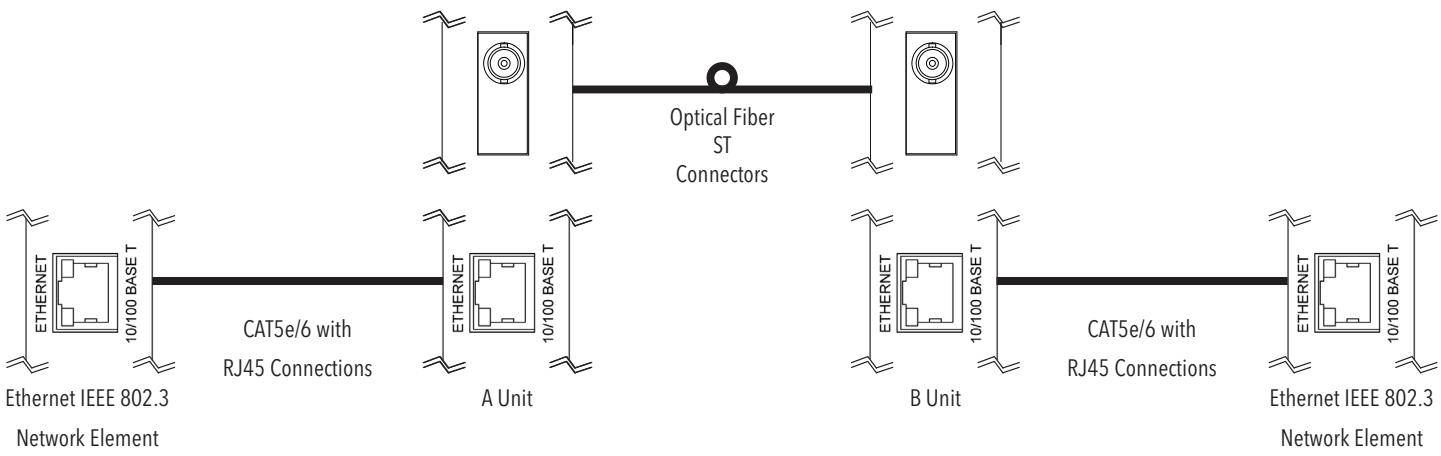


FIGURE 8 - LED INDICATORS

	FX LINK/ACT	POE	POWER
GREEN	Fiber interface linked (when lit or flashing)	Power is being supplied by unit	Unit powered up
OFF	Fiber interface not linked.	Power not supplied by unit. (No PoE device)	Unit powered down

FIGURE 9 - PoE PIN ASSIGNMENT

RJ-45 port supports IEEE802.3af/IEEE802.3at

End-point:      Positive (VCC+): RJ45 pin 1, 2 or 4, 5  
                     Negative (VCC-): RJ45 pin 3, 6 or 7,8

Data:            (1, 2, 3, 6)

## INSTALLATION CONSIDERATIONS

This fiber-optic link is supplied as a Standalone/Rack module. Units should be installed in dry locations protected from extremes of temperature and humidity.

### SBP-C14 / SBP-C03 CARD CAGE RACKS

**CAUTION:** Although the units are hot-swappable and may be installed without turning power off to the rack, Hanwha recommends that the power supply be turned off and that the rack power supply is disconnected from any power source. Note: Remove electrical connector before installing in card cage rack.

1. Make sure that the card is oriented right side up, and slide it into the card guides in the rack until the edge connector at the back of the card seats in the corresponding slot in the rack's connector panel. Seating may require thumb pressure on the top and bottom of the card's front panel.

**CAUTION:** Take care not to press on any of the LEDs.

2. Tighten the two thumb screws on the card until the front panel of the card is seated against the front of the rack.

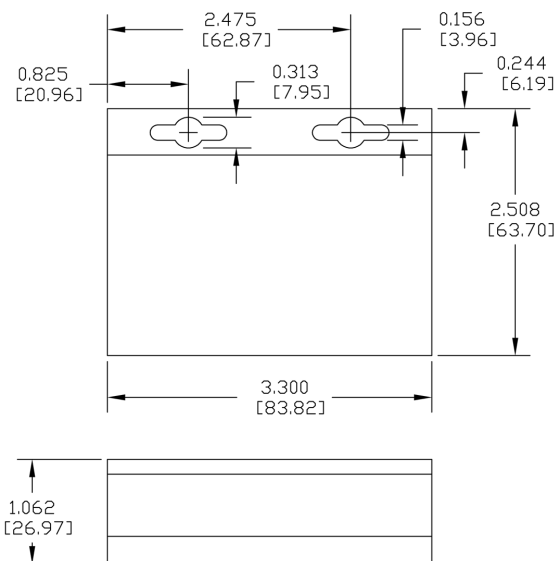
**WARNING:** Unit is to be used with a Listed Class 2 power supply.

### IMPORTANT SAFEGUARDS:

- A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T<sub>ma</sub>) specified by the manufacturer.
- B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

**FIGURE A**

*Dimensions are for a small size module*



**FIGURE B**

*Dimensions are for a standard one slot module*

