TMC-GSFP Series

10/100/1000MBPS ETHERNET MEDIA CONVERTERS WITH 100FX AND 1000FX SUPPORT

This manual serves the following Model Names:

TMC-GSFPM

TMC-GSFP

TMC-GSFPPOEM

The TMC-GSFP electrical-to-optical Ethernet media converters accept a 10/100 or 1000 Mbps electrical input and converts this to a 100 or 1000 Mbps optical output (selected by a dip switch) and the 100/1000 Mbps optical input back to the 10/100/1000 Mbps electrical output. "Auto-Negotiating" is supported on the copper interface side. These devices use either one or two optical fibers, depending upon the selection of sold-separately SFP optical modules.

A PoE model, the TMC-GSFPPOEM meets the IEEE802.3af/IEE802.3at standard and provides up to 30 watts of PoE+ power. The series also consists of a small size single channel model, TMC-GSFPM, and a standard size, single-channel model, TMC-GSFP. The standard size unit may be directly plugged into the SBP-C14 / SBP-C03 Rack or operated as a standalone module. The small size unit operates as standalone modules only.

FIGURE 1 – TMC-GSFPM SMALL SIZE UNIT

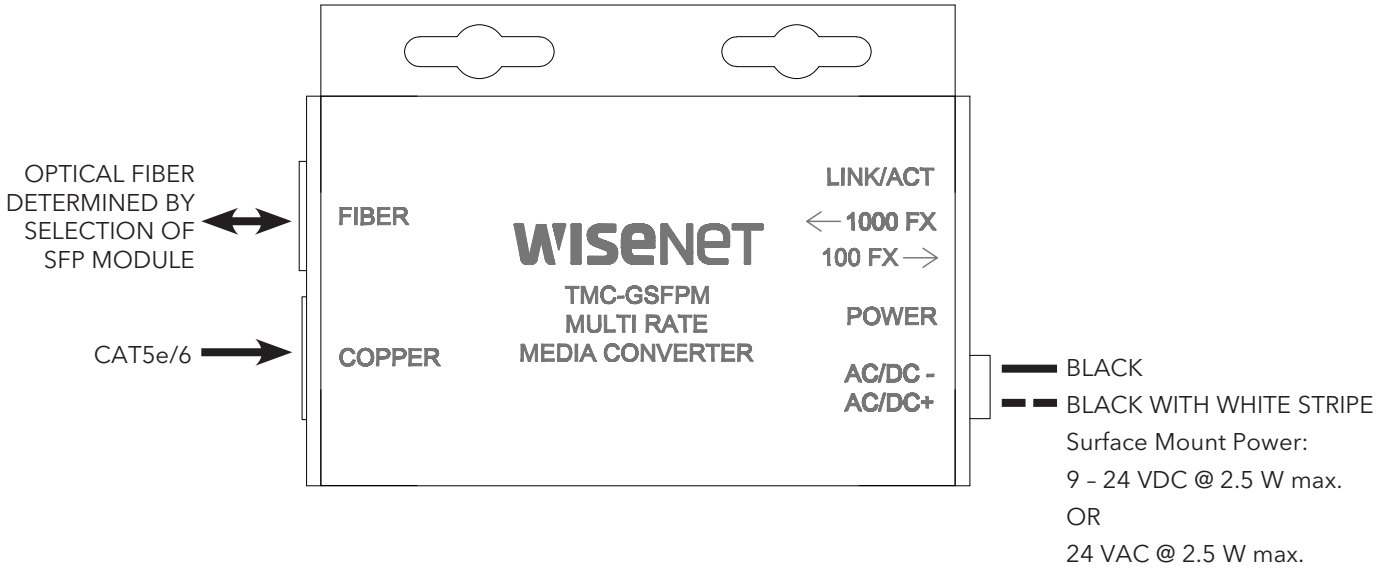


FIGURE 2 – TMC-GSFPM SMALL SIZE UNIT

FRONT PANEL REAR PANEL

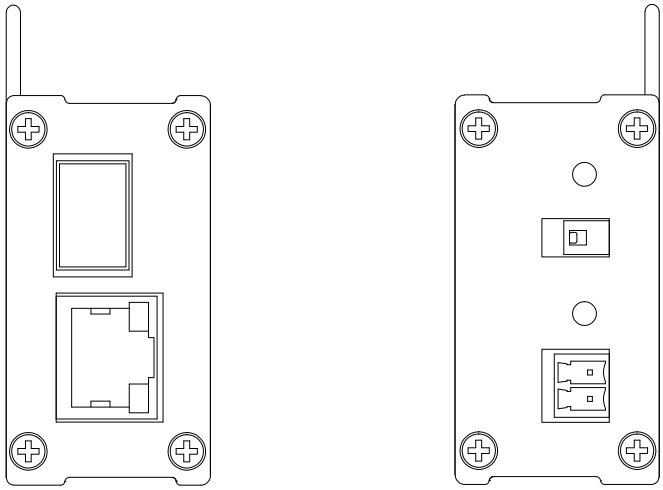


FIGURE 3 – TMC-GSFPPOEM SMALL SIZE UNIT

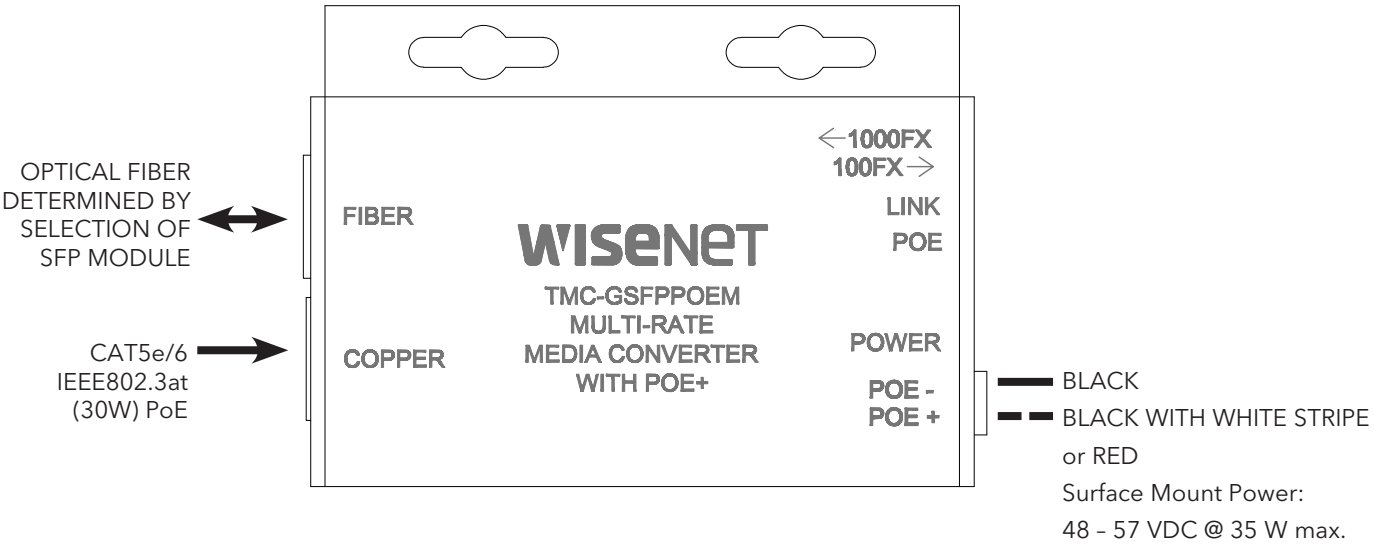


FIGURE 4 – TMC-GSFPPOEM SMALL SIZE UNIT

FRONT PANEL REAR PANEL

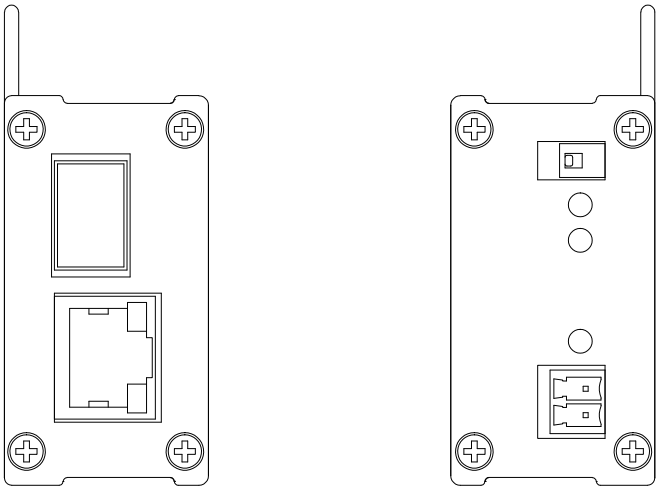


FIGURE 5 – TMC-GSFP STANDARD SIZE UNIT

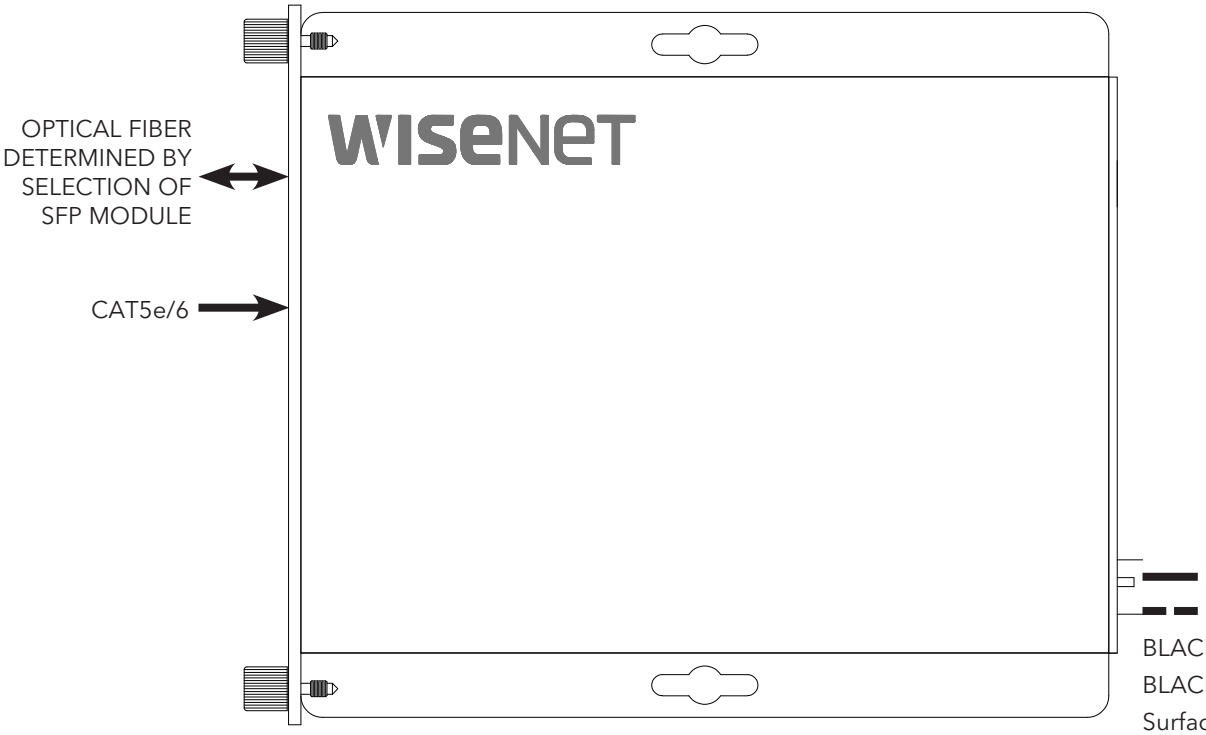


FIGURE 6 – TMC-GSFP STANDARD SIZE UNIT

FRONT PANEL REAR PANEL

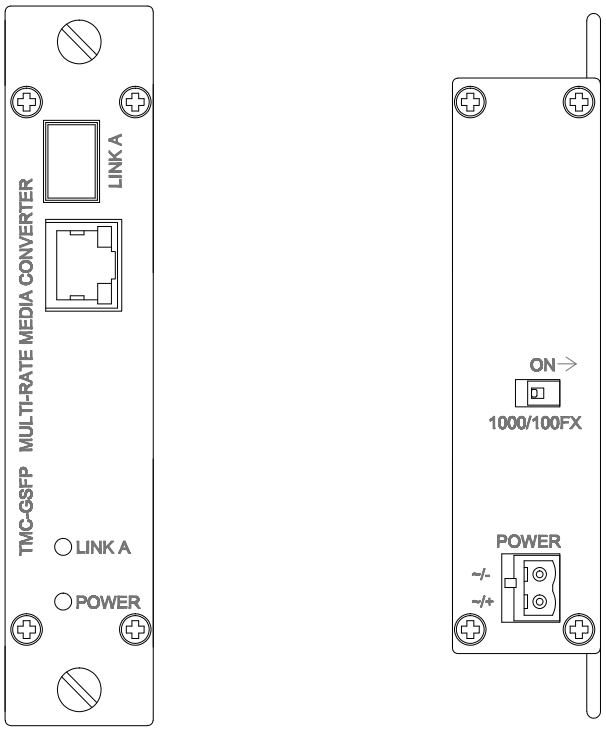


FIGURE 7 – DIP SWITCH SETTINGS

Position	Resulting Data Rate
OFF	1000FX (requires use of Gigabit SFP module)
ON	100FX

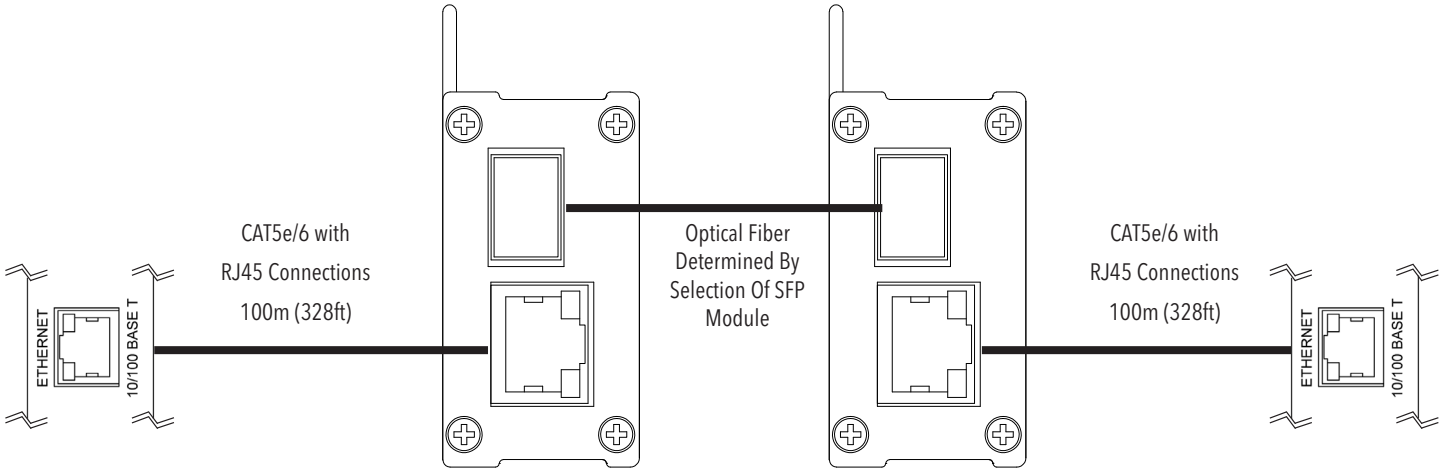
NOTE: Select the Data Rate before powering on the unit. After a Data Rate change, re-cycle power to the unit.

FIGURE 8 – LED INDICATORS

	LINK	COPPER	POWER
GREEN	Solid – No Activity Blinking – Activity	Solid – No Activity Blinking – Activity	Unit powered up
YELLOW	–	Highest Data Rate	–
OFF	No Link	No Link	Unit powered down

FIGURE 9 – POSSIBLE ETHERNET CONFIGURATION

Ethernet IEEE 802.3 Network Element determined by user.



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 (Tma) 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

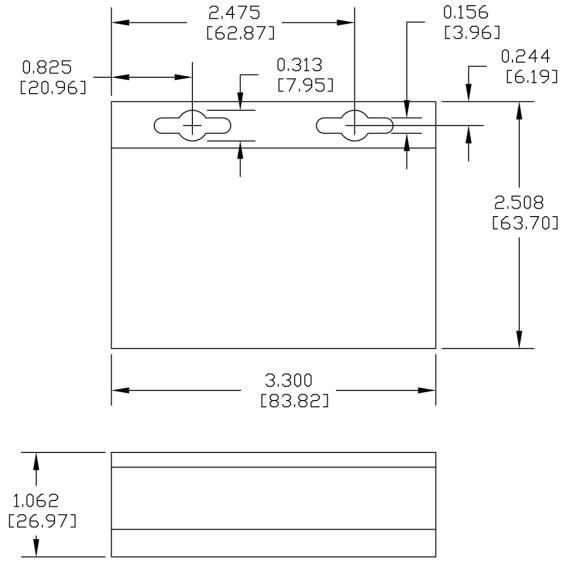


FIGURE B

Dimensions are for a standard one slot module