

# HMC-672

## Hardened 10/100/1000Base-T to Gigabit SFP Media converter



### Overview

The HMC-672 Hardened Gigabit Media Converter which provides an affordable solution for outdoor locations, especially designed for rugged and harsh industrial environments where require the extended temperature, longer distance and small space. By converting copper to fiber connection, the HMC-672 enables to extend Gigabit Ethernet connection over optical fiber links between two twisted pair devices in much long distances up to 500m (multimode fiber), 10km (single-mode fiber) or 110km (SFP module) without performance degradation.

This point-to-point product meets all requirements to extend LAN distances communicate with remotely located Ethernet enabled devices. Other than that, the HMC-672 is equipped with Link Fault Signaling (LFS) which is used to indicate whether the fiber has been cut; letting the user know there is a problem that needs to be fixed right away. The typical application for the HMC-672 can be used in places where hardened converters can be used for a long time such as IP Cams and Wi-Fi applications.

### Features

#### Network Function

- One 10/100/1000 Mbps Ethernet port
- One 1000Base-SX/LX for Gigabit links
- Auto MDI/MDI-X Support on RJ-45
- Extends distance up to 550m for Multi-mode SX under full duplex mode
- Distances of 110km with long-haul single-mode under full duplex mode

#### Network Management

- Link Fault Signaling
- LFS Led Illuminates to indicate link failure
- Status LED's for easy monitoring of device status

#### Unit LED

- PWR: Illuminated for normal operation
- LFS: Illuminated when failure occurs on fiber or copper link
- LNK/ACT: Fiber / Copper Link Illuminated – when receiving link pulses from compliant devices
- Flashing – when data packets are being transmitted / received

### Specifications

#### Standards

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE802.3z 1000Base-T
- IEEE 802.3z 1000Base-SX/LX

#### Power

Power Input: 12V DC, via external power adapter

#### Connector

- 1 x 10/100/1000Base-T RJ-45
- 1 x Gigabit SFP

#### Mechanical and Environmental

- Operating Temperature -20°C to 60°C
- Storage Temperature -40°C to 85°C
- Operating Humidity 10% to 80% RH
- Storage Humidity 5% to 90% RH
- Chassis Compliant
- External Power adapter

#### Dip Switch

- On: LFS Alarm Report is enabled
- Off: LFS Alarm Report is disabled
- When the fiber or copper is disconnected the LFS LED Light-On

#### Dimensions and Weight

- Dimensions 109.2x73.8x23.4mm (WxHxD)
- Weight 158g

### Ordering Information

#### HMC-672

Hardened 10/100/1000 to Gigabit SFP Media Converter, SC, -20°C ~ 60°C

#### HMC-672W

Hardened 10/100/1000 to Gigabit SFP Media Converter, SC, -40°C ~ 70°C

#### HMC-672SC

Hardened 10/100/1000 to 1000LX Single mode Media Converter, 10Km, SC, -20°C ~ 60°C

#### HMC-672WSC

Hardened 10/100/1000 to 1000LX Single mode Media Converter, 10Km, SC, -40°C ~ 70°C

#### HMC-672MC

Hardened 10/100/1000 to 1000SX Multi-mode Media Converter, SC, -20°C ~ 60°C

#### HMC-672WMC

Hardened 10/100/1000 to 1000SX Multi-mode Media Converter, SC, -40°C ~ 70°C

**Application:** The diagram below illustrates a typical application for the HMC-672 converter. The actual distances will depend on several factors, including the quality of cables used and the terminal equipment employed.

