

# HMC-652

## Hardened 10/100Base-TX to 100FX converter

### Overview

The HMC-652 Hardened Fast Ethernet 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-652 enables to extend Fast Ethernet connection over optical fiber links between two fast Ethernet twisted pair devices in distance up to 2km (multimode fiber) or 30km (single-mode fiber) 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-652 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-652 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 Mbps Ethernet Port
- One 100Base-FX Fiber Port
- 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/FX

#### Power

Power Input: 12V DC, via external power adapter

#### Connector

- Copper connector: 1 port RJ-45
- Fiber connector: 1X9 fiber transceiver

#### 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-652MC

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

#### HMC-652MT

Hardened 10/100 to 100Base-FX Multi-mode Media Converter, ST, -20°C ~ 60°C

#### HMC-652SC

Hardened 10/100 to 100Base-FX Single mode Media Converter, 30Km, SC, -20°C ~ 60°C

**Application:** The diagram below illustrates a typical application for the HMC-652 converter. The actual distances will depend on several factors, including the quality of cables used and the terminal equipment employed.

