

## HMC-672

### 10/100/1000 RJ45 to 1000SX Hardened Converter, Slim Aluminum Case

#### Description

The HMC-672 Gigabit SFP Media Converter is ideally designed to convert 1000BASE-SX/LX to 10/100/1000BASE-TX or vice versa and extend network services in harsh environments. Built with field-hardened components and enclosed in rugged IP30 grade casing, the HMC-672 ensures that your mission-critical applications are running continuously in wide temperatures ranging from -10oC to 60oC. Integrated with LFS (Link Fault Signalling) and LEDs, the converter allows you to continuously monitor link activity/status and enables you to quickly detect and recover link failures.

The HMC-672 is equipped with 1-10/100/1000Mbps TX and 1-Gigabit SFP ports to give you the utmost flexibility in installing various connections over fiber. By converting media transmissions from Ethernet to fiber or fiber to Ethernet, the HMC-672 extends the reach of Gigabit Ethernet connectivity over single-mode or multi-mode fiber or SFP module. The HMC-672 offers you the most economic and cost-effective solution to meet your need for long distance transmissions up to 110km (SFP module) and provide a gradual migration path from existing Fast Ethernet networks to Gigabit Ethernet networks



#### Features Highlight

##### Rugged and Robust Design

Responding to the issues of consistent operation in harsh industrial and mission-critical environments, the HMC-672 is built in a rugged and durable housing. Enclosed in IP30-grade casing, the media converter provides superior protection from severe temperatures extending from -10oC to 60oC. Capable of DIN-Rail mounting, the device is simple to install easy to fit in industrial environments that have limited spaces. The HMC-672W also features DC jack with locking function to ensure continuous power connectivity in mission-critical applications where vibration plays a key role and extremely tight connections are crucial.



##### User-friendly Monitoring

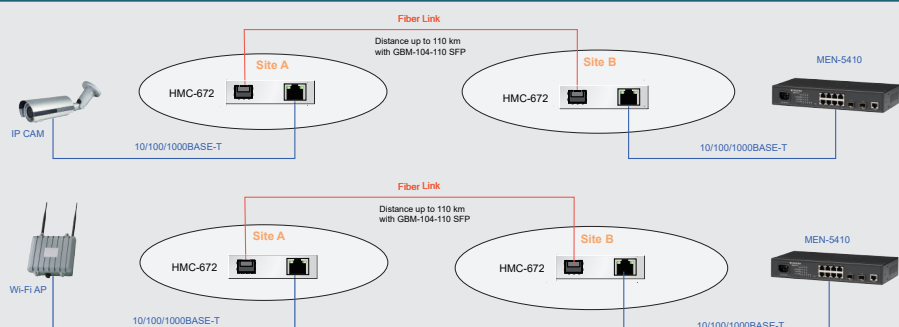
Network administrators can now easily monitor and troubleshoot issues associated with device functionality and link activity using the HMC-672 advanced features. LFS (Link Fault Signalling) feature on the device enables you to easily detect optical signal strengths and faulty links on copper and fiber ports, and significantly minimizes outage. And the LEDs on the HMC-672 convey essential diagnostic and status information of device power, link activity on ports etc. and allow you to easily monitor without having to get into tight spaces.

##### Easy Plug-and-play Operation




Being a compact, lightweight media converter, the HMC-672 is an easy-to-setup and ready-to-use solution for harsh industrial environments. Featuring Auto-MDI/MDIX and Auto-negotiation, the media converter automatically detects and configures the best mode of operation over a link. This eliminates the need of user setup or configuration procedure and simplifies installation. And once installed the media converter operates automatically. In addition, the Link Fault Pass-through DIP switch on the HMC-672 provides a simplest and quickest way to enable or disable LFS (Link Fault Signalling) function on the device.

#### Applications

\* The diagram 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.



## Specifications

Standards			
IEEE 802.3	10BASE-T		
IEEE 802.3u	100BASE-TX		
IEEE 802.3z	1000BASE-TX		
IEEE 802.3z	1000BASE-TX/LX		
Network Function			
One 10/100/1000 Mbps Ethernet Port			
One 1000BASE-SX/LX for Gigabit links			
Auto MDI/MDI-X Support on RJ45			
Network Management			
Link Fault Signaling			
Interface			
Connectors	1x10/100/1000BASE-T RJ45 1xGigabit SFP		
Fiber Optics			
Model Name	HMC-672	HMC-672MC	HMC-672SC
Connector Type	 SFP	 SC	 SC
Interface Type	1000BASE-SX/LX	1000BASE-SX	1000BASE-LX
Fiber Mode	(Depends on SFP module)	Multi-Mode	Single-Mode
Distance	Up to 80km (Depends on SFP module)	Up to 500m (Upon customer request)	Up to 80km (Upon customer request)
LAN (RJ45)			
Speed	10/100/1000M	10/100/1000M	10/100/1000M
Max. Distance	100m	100m	100m
Power			
Power Input	12V DC/1.5A, via external power adapter		
Power Consumption	5.3W		
Mechanical and Environment			
Housing	Aluminum (IP30 Protection)		
Mounting	DIN-Rail		
Operating Temperature	-10°C~60°C		
Storage Temperature	-40°C~85°C		
Operating Humidity	10 to 95% RH (non-condensing)		
Storage Humidity	5 to 95% RH (non-condensing)		
Weight	158g		
Dimensions	74x23x109 mm (WxHxD)		

Standards and Certifications	
EMI	EN 55011 EN 55022 Class A EN 61000-6-3
	EN 55024 EN 61000-6-1 EN 61000-4-2 (ESD) Level 3 EN 61000-4-3 (RS) Level 2 EN 61000-4-4 (EFT) Level 3 EN 61000-4-5 (Surge) Level 2 EN 61000-4-6 (CS) Level 2 EN 61000-4-8 (PFMF) Level 2 EN 61000-4-9 EN 61000-4-11
	EMS
Ordering Information	
HMC-672	10/100/1000BASE-T to SFP (SX/LX) Gigabit Converter
SFP Module	GBM-104 1000BASE-SX 1.25G, Multi-Mode SFP, 500m
	GBM-104-2 1000BASE-SX 1.25G, Multi-Mode, 3.3V, 1310nm, 2Km
	GBM-104-10 1000BASE-LX 1.25G, Single-Mode SFP, 10Km
	GBM-123TS 1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single-Mode, 10km
GBM-123RS 1000BASE-LX, Bi-Di SFP TX:1550/RX:1310 Single-Mode, 10km	
HMC-672MC	10/100/1000BASE-T to Multi-Mode 1000BASE-FX Converter, SC connector, 500m
HMC-672SC	10/100/1000BASE-T to single mode 1000BASE-FX Converter, SC connector, 10km

\*Maximum distance depends on fiber optic module or upon customer request)

\*Specifications subject to change without notice.

## Dimension

