

## HMC-652

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

#### Description

The HMC-652 Fast Ethernet Hardened Media Converter is ideally built to deliver extended network services in harsh environments. Designed with field-hardened components and enclosed in rugged IP30 grade casing, the HMC-652 ensures that your mission-critical applications are running continuously in temperatures ranging from -10oC to 60oC. Integrated with LFS (Link Fault Signalling) and LEDs, the HMC-652 allows you to monitor link activity/status and enables you to quickly detect and recover link failures.

The HMC-652 is equipped with 1-10/100Mbps TX and 1-100Mbps FX ports to give you the utmost flexibility in connecting 10Mbps or 100Mbps connections over fiber. By converting media transmissions from Ethernet to optical fiber, the HMC-652 extends the reach of Fast Ethernet connectivity over single-mode or multi-mode fiber. The HMC-652 offers you the most economic and cost-effective solution to meet your need for long distance transmissions up to 30km and provide a gradual migration path from existing copper-based systems to optical cabling-based systems.



#### Features Highlight

##### Rugged and Robust Design

Responding to the issues of consistent operation in harsh industrial and mission-critical environments, the HMC-652W 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 and easy to fit in industrial environments that have limited spaces. The HMC-652W 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

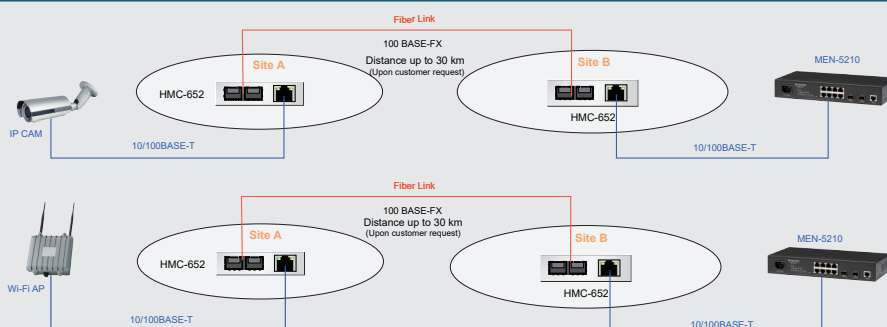
Network administrators can now easily monitor and troubleshoot issues associated with device functionality and link activity using the HMC-652 advanced features. LFS (Link Fault Signalling) feature on the device enables you to easily detect optical signal strengths and faulty links on copper and fiber ports, and significantly minimizes outage. And the LEDs on the HMC-652 convey essential diagnostic and status information of device power, link activity on ports etc. Thus the LEDs show the status of each component or function assigned to it and allow you to monitor easily without having to get into tight spaces.

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




Being a compact, lightweight media converter, the HMC-652 is an easy-to-setup and ready-to-use solution for harsh 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-652 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-652 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/FX		
Network Function			
One 10/100 Mbps Ethernet Port			
One 100BASE-FX Fiber Port			
Auto MDI/MDI-X Support on RJ45			
Network Management			
Link Fault Signaling			
Interface			
Connectors	<b>Copper connector:</b> 1 port RJ45		
	<b>Fiber connector:</b> 1X9_SC fiber transceiver (SC type connector) 1X9_ST fiber transceiver (ST type connector)		
Fiber Optics			
Model Name	HMC-652MT	HMC-652MC	HMC-652SC
Connector Type	 ST	 SC	 SC
Interface Type	100BASE-FX	100BASE-FX	100BASE-FX
Fiber Mode	Multi-Mode	Multi-Mode	Single-Mode
Distance	Up to 2km	Up to 2km	Up to 100km
<small>(Upon customer request)</small>			
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	
	EMS	EN 55024 EN 61000-6-1 EN 61000-4-2 (ESD) Level 4 EN 61000-4-3 (RS) Level 2 EN 61000-4-4 (EFT) Level 2 EN 61000-4-5 (Surge) Level 3 EN 61000-4-6 (CS) Level 2 EN 61000-4-8 (PFMF) Level 2 EN 61000-4-9 EN 61000-4-11
		Approval & Test
Shock		IEC 60068-2-27
Freefall		IEC 60068-2-32
Vibration		IEC 60068-2-6
Ordering Information		
HMC-652MT		10/100 to 100FX Hardened Converter, MM, ST - 2Km
HMC-652MC		10/100 to 100FX Hardened Converter, MM, SC - 2Km
HMC-652SC	10/100 to 100FX Hardened Converter, SM, SC - 30Km	

*\*Maximum distance depends on fiber optic module or upon customer request)  
\*Specifications subject to change without notice.*

## Dimension

