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HMC-652E

10/100 RJ45 to 100FX Media Converter

Description

The HMC-652E Fast Ethernet Media Converters Series is specifically designed for large work-groups such as enterprise or campus environment which demand maximum bandwidths, and engineered to offer a solution for networks that are ready to expand or migrate from Copper-based to Fiber-based network. Along with the capability of converting media transmissions, the HMC-652E Series feature intelligent functions like LLB/RLB (Local and Remote Loopback), Auto MDI/MDIX, LFS (Link Fault Signaling), LEDs DIP switches etc. to provide easy plug-and play, continuous monitoring and thereby minimize downtime for mission-critical networks.

Built with field-hardened components and enclosed in rugged IP30 grade casing, the HMC-652E ensures that your mission-critical applications are running continuously in wide temperatures ranging from -10°C to 60°C.

Featuring a RJ45 and a fiber port, the HMC-652E converts 10/100BASE-TX network to 100FX fiber network or vice versa by easily integrating copper with fiber and allowing them to operate smoothly. This gives the utmost flexibility in installing various connections over fiber and extend the reach of Fast Ethernet connectivity over single-mode or multi-mode fiber. The HMC-652E series offers you the most economic and cost-effective solution to meet your need for long distance transmissions up to 100km and provide a gradual migration path from existing Fast Ethernet network to Fast network.

Features Highlight

Rugged and Robust Design

Responding to the issues of consistent operation in harsh industrial and mission-critical environments, the HMC-652E is built in a rugged and durable housing. Enclosed in IP30-grade casing, the media converter provides superior protection from severe temperatures extending from -10°C to 60°C. Capable of DIN-Rail mounting, the device is simple to install easy to fit in industrial environments that have limited spaces. The HMC-652E 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.

Economic and Space-saving Design

Responding to the issues of design in mission-critical environments, the HMC-652E is designed in a space-saving, compact and slim housing. This standalone low-cost media converter provides transparent conversion at 100Mbps without data stream interference and inexpensively connects both 10/100Mbps copper port and 100Mbps fiber port in a small enclosure. The compact size allows the converters to be wall-mounted to save space. The HMC-652E is extremely simple to install and operate, and thus saves your valuable time and money.

Fault-tolerant and User-friendly Monitoring

Network administrators can now easily monitor and troubleshoot issues associated with device functionality and link activity using the HMC-652E advanced features. LFS (Link Fault Signalling) feature on the device provides critical information about link status and enables you to easily detect optical signal strengths and faulty links on both copper and fiber ports, and significantly minimizes outage. And the LEDs on the HMC-652E 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-652E is an easy-to-setup and ready-to-use solution for dispersed or emerging networks. 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 Signaling DIP switch on the HMC-652E provides a simplest and quickest way to enable or disable LFS (Link Fault Signaling) function on the device.

Local loopback and Remote loopback

Selecting Loopback mode on the interface allows administrators to remotely isolate and localize network problems. Local loopback is provided on the closet segment and Remote loopback is provided on the secondary segment. Administrators can send test packets to a link and inspect the returned packets to diagnose each link of the network.

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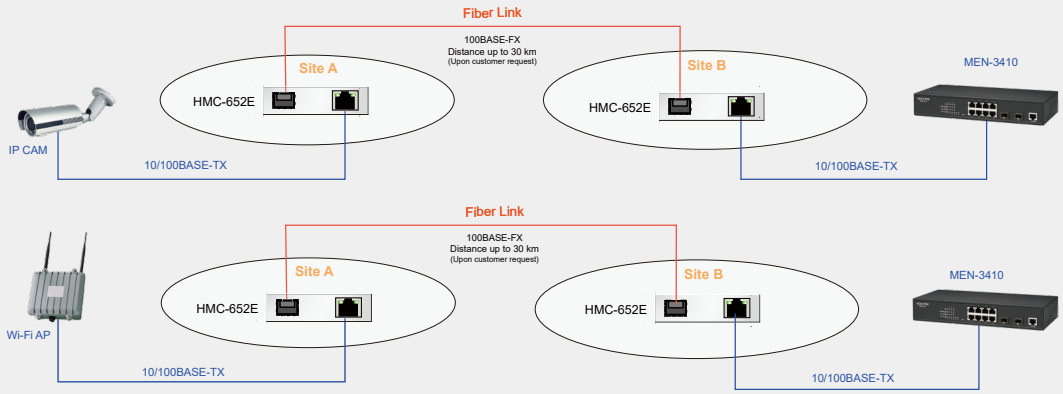
Applications

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



Specifications

Features			
Copper port	Auto MDI/MDI-X		
LED	PWR, Fiber(100, LNK/ACT), RJ45 (100, LNK/ACT), ALM (Alarm)		
Jumbo Frame	16KB		
DIP Functions	1: Link Fault Signal		
	2: LLB (Local Loopback)		
	3: RLB(Remote Loopback)		
Standards			
IEEE 802.3	10BASE-T		
IEEE 802.3u	100BASE-TX/FX		
Fiber Optics			
Model Name	HMC-652E-MT	HMC-652E-MC	HMC-652E-SC
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 2m	Up to 100km
	(Upon customer request)		
LAN (RJ45)			
Speed	10/100Mbps		
Max. Distance	100m		
Power			
Power Input	12V DC/1.5A, via external power adapter		
Power Consumption	1.8W		
Mechanical and Environment			
Housing	Aluminum (IP30 Protection)		
Dimensions (W x H x D)	73.8 x 23.4 x 109.2mm (2.9 x 0.9 x 4.3 inch)		
Weight	158g		
Mounting	Wall-Mount, DIN-Rail		
Operating Temperature	-10°C~60°C (14°F ~ 140°F)		
Storage Temperature	-40°C~85°C (-40°F ~ 185°F)		
Operating Humidity	5 to 95 % RH (non-condensing)		
Storage Humidity	5 to 95% RH (non-condensing)		

Standards and Certifications	
EMI	FCC Part 15 Class A ICES-003 Issue 6 Class A ANSI C63.4 EN 55032 Class A EN 55011 Class A EN 61000-6-4
EMS	EN 55024 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 61000-4-11 (DIP) EN 61000-6-2
Ordering Information	
HMC-652E-MT	10/100BASE-TX to Multi-mode 100BASE-FX Converter, ST connector, 2Km
HMC-652E-MC	10/100BASE-TX to Multi-mode 100BASE-FX Converter, SC connector, 2Km
HMC-652E-SC	10/100BASE-TX to Single Mode 100BASE-FX Converter, SC connector, 30Km

**Specifications subject to change without notice.*

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Dimension