

HMC-672E

10/100/1000 RJ45 to 100FX/1000Base-X Converter

Description

The HMC-672E Gigabit Media Converters Series is specifically designed for large work-groups such as enterprise or campus environments which demand maximum bandwidths, and engineered to offer a solution for networks that are ready to expand or migrate from copper-based Gigabit triple speed to Fiber-based Gigabit network. Along with the capability of converting media transmissions, the HMC-672E Series features intelligent functions like 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-672E ensures that your mission-critical applications are running continuously in wide temperatures ranging from -10°C to 60°C.

Featuring an RJ45 port and an SFP slot, the HMC-672E converts series 10/100/1000Base-T network to 100FX/1000Base-X 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 Gigabit Ethernet connectivity over single-mode or multi-mode fiber or SFP module. The HMC-672E series offers you the most economic and cost-effective solution to meet your need for long distance transmissions up to 120km (based on the SFP) and provide a gradual migration path from existing Fast Ethernet network to Gigabit network.


RoHS


Features Highlight

Rugged and Robust Design

Responding to the issues of consistent operation in harsh industrial and mission-critical environments, the HMC-672E 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-672E 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-672E is designed in a space-saving, compact and slim housing. This standalone low-cost media converter provides transparent conversion at 1000Mbps without data stream interference and inexpensively connects both 10/100/1000Mbps copper port and Fast/Gigabit Ethernet SFP in a small enclosure. The compact size allows the converters to be wall-mounted to save space. The HMC-672E is extremely simple to install and operate, and thus saves your valuable time and money.

Fault-tolerant and User-friendly Monitoring

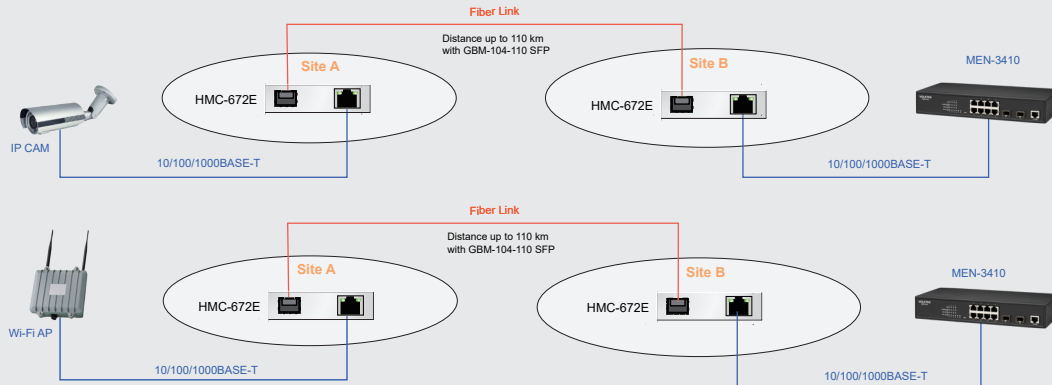
Network administrators can now easily monitor and troubleshoot issues associated with device functionality and link activity using the HMC-672E advanced features. LFS (Link Fault Signalling) feature on the device provides critical information about link status and enables you to easily detect optical signal strengths and faulty links on both copper and fiber ports, and significantly minimizes outage. And the LEDs on the HMC-672E 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-672E 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-672E provides a simplest and quickest way to enable or disable LFS (Link Fault Signaling) function on the device.

Applications

* The diagram illustrates a typical application for the HMC-672E 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		
IEEE 802.3ab	1000BASE-T		
IEEE 802.3z	1000BASE-SX/LX		
Interface			
Ports	1 x 100FX/1000BASE-X 1 x 10/100/1000BASE-T (RJ45)		
LED Panel	PWR, ALM, Fiber (1000, LNK/ACT), RJ45 (1000, LNK/ACT)		
DIP	LFS (Link Fault Signal) LLB (Local Loopback) RLB (Remote Loopback) SFP Speed		
Fiber Optics			
Model Name	HMC-672E	HMC-672E-MC	HMC-672E-SC
Connector Type			
	SFP	SC	SC
Interface Type	100FX/1000Base-X	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)
Features			
Performance	Mode: Store & Forward (unequal link speed) Cut-through (equal link speed)		
	Packet buffer size: 512 Kbits		
	Jumbo Frame size: 16 KBytes		
Power			
Power Input	12V DC/1A, via external power adapter		
Power Consumption	1.8W		
Mechanical and Environment			
Housing	Aluminum (IP30 Protection)		
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)		
Weight	158 g (0.35 lb)		
Dimension (WxHxD)	73.8 x 109.2 x 28.4 mm (2.91 x 4.3 x 1.12 in)		

Certifications		
EMI		FCC Part 15 of Class A & CE Approved EN 55032 Class A EN 55011 EN 61000-6-3
EMS		EN 55024 IEC/EN 61000-4-2 (ESD) IEC/EN 61000-4-3 (RS) IEC/EN 61000-4-4 (EFT) IEC/EN 61000-4-5 (Surge) IEC/EN 61000-4-6 (CS) IEC/EN 61000-4-8 (PFMF) IEC/EN 61000-4-11 IEC-61000-6-1 IEC-61000-4-9
Ordering Information		
HMC-672E		10/100/1000BASE-T to SFP GbE Converter
SFP Module	GBM-104	1000BASE-SX 1.25G, Multi-mode SFP, 500m
	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-672E-MC		10/100/1000BASE-T to Multi-mode 1000BASE-SX Converter, SC connector, 500m
HMC-672E-SC		10/100/1000BASE-T to Single Mode 1000BASE-LX Converter, SC connector, 10km
HMC-672E-SC40		10/100/1000BASE-T to Single Mode 1000BASE-LX Converter, SC connector, 40km
HMC-672E-SC50		10/100/1000BASE-T to Single Mode 1000BASE-LX Converter, SC connector, 50km
HMC-672E-SC70		10/100/1000BASE-T to Single Mode 1000BASE-LX Converter, SC connector, 70km

*Specifications subject to change without notice.

Dimension

