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Description

Connection Technology System (CTS) HMC-3012 media converter is the Gigabit Ethernet Fiber 10/100/1000Base-T to 100/1000Base-X media converter. The HMC-3012 media converter converts traditional twisted-pair RJ-45 cable into WDM SC single-mode fiber media, extending transmission distance up to 10km in the deployment of FTTX point-to-point solutions.

The effortless, minimalistic design of HMC-3012 is self-explanatory. A feature improves on a traditional standalone media converter, of which the appearance usually does not blend well into the overall design of customers' premises.

HMC-3012 media converter is fully compliant with IEEE 802.3, 802.3u, 802.3ab, and 802.3z standards, supporting multiple handy functions including store and forward switching mechanism, auto-negotiation for the TP port, MDI/MDIX auto-crossover for the TP port, and advanced Ethernet-Follow-Fiber method. On the top panel is a set of diagnostic LED indicators, which allows real-time monitoring of the media converter and therefore enables straightforward operation and installation.

Just about the size of your palm, HMC-3012 is an ideal device for the costeffective deployment of fiber optic connectivity when the required transmission distance cannot be met between two network devices.

HMC-3012

1 x 10/100/1000Base-T RJ-45 +

1 x 100/1000Base-X Fiber Port for SC Connector

Gigabit Ethernet Fiber Media Converter



 Gigabit Dual Rate Fiber With Auto-Sensing
Automatically adjust the link speed between the builtin 100Base-FX and 1000Base-X.

9K Bytes Jumbo Frame Size

Support Jumbo Frame size 9K bytes to ease the network traffic loading and facilitate IPTV service.

Plug & Play

Eliminate the need for complicated installation with fast-deployment FTTX point-to-point design.

 Advanced Ethernet-Follow-Fiber Method
The link speed and status of the Ethernet copper port can be adjusted to the fiber optic counterpart.

Low-Profile Design

Just about the size and look of a wall power socket, HMC-3012 nicely blends into any design of customers' premises.

Target Applications

FTTX Point-to-Point Implementations.



Specification

Interface

-TP Port: 1 x 10/100/1000Base-T RJ-45 -F/O Port: 1 x 100/1000Base-X (TX: 1310 / RX: 1550nm with SC connector)

Standards
IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX/FX
IEEE 802.3ab 1000Base-T
IEEE 802.3z 1000Base-X

Forward/Filter Rate
-10M: 14,880/14,880pps
-100M: 148,800/148,800pps
-1000M: 1,488,000/1,488,000pps

H/W Specification
Non-Blocking Switching Fabric: 4Gbps
Store and Forward Switching Mechanism
Auto-Crossover for MDI/MDIX for TP Port
Auto-Negotiation for TP Port
MAC Address Table: 2K
9K Bytes Jumbo Frame
DIP Switch:
Pin 1: F/O Speed Auto-Sensing
Pin 2: F/O 1G Mode
Pin 3: Ethernet Follow Fiber Link Status
Pin 4: Ethernet Follow Fiber Link Speed

LED
Power, Status, Fiber, Ethernet

Power Requirement
Power Adaptor
AC Input: 100VAC ~ 240VAC
Frequency Range: 50 ~ 60Hz
DC Output: 12VDC, 1A
Power Consumption (Max.): 2.04W

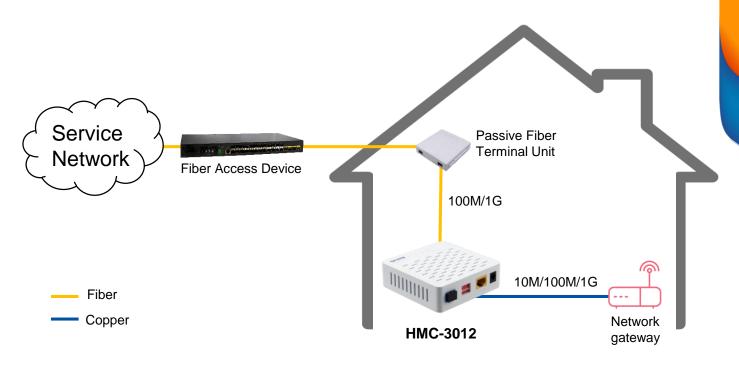
Environmental Condition
Operation: 0°C ~ 45°C
Storage Temperature: -20°C ~ 60°C
Humidity: 5% ~ 90%, Non-Condensing

Dimension & Weight
Size: 88 x 88 x 27mm (W x D x H)
Weight: 105g

EMC/Safety
FCC Class A, CE

* Under development function ** Future feature

Application Diagram



Order Information

HMC-3012

Model	Fiber Port					TP Port	
	Speed (Mbps)	Туре	Connector	Distance	Port	Speed (Mbps)	Port
HMC-3012W2A(SM-10)	100/1000	WDM	SC	10KM	1	10/100/1000	1

Connection Technology Systems (CTS) reserves the right to change specification without prior notice.