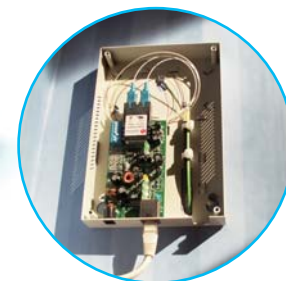## Fiber to the Home (FTTH)
FHG-10/100

The **FHG-10/100** is a standalone optical fiber converter available in models for 10/100 Ethernet that provides link-pass through and Auto-MDI/X functions. The **FHG-10/100** not only supports store and forward mode, it also supports modified cut through mode and pure converter mode for low latency data forwarding.

The **FHG-10/100** gives you the options to choose from the two most popular fiber cabling connectors, ST or SC. Both multi-mode and single mode converter models are available as well as WDM (wave division multiplexing) which allows Tx and Rx to use a single fiber cable. Auto-negotiation will automatically tailor these units to convert both half-duplex and full-duplex Ethernet signals, depending on your specific network needs. LED indicators signal the power status of the converter, UTP port speed, duplex status and Link/Rx and FX port Link/Rx and duplex status..

Features
- Supports Auto MDI-MDX function
- Supports Auto Negotiation function
- Supports Link fault Pass Through function
- LED Indicators
- Supports convert mode , store / forward, Cut through or Converter mode with Auto Change Store and Forward
- Built-in Fiber Cable Tray

Specification

Standard
IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX/FX
IEEE 802.3x flow control

Interface
10/100Base-T RJ-45 Port
100Base-FX Port: x 1

Indications (LEDs)
Power,link/activity,full/half,10/100

Forward / Filter Rate
10M: 14,880/14,880pps
100M: 148,800/148,800pps

Physical Specifications
Dimensions: 180mm x 130mm x 35mm (D x W x H)
Weight:250g

Power Characteristics
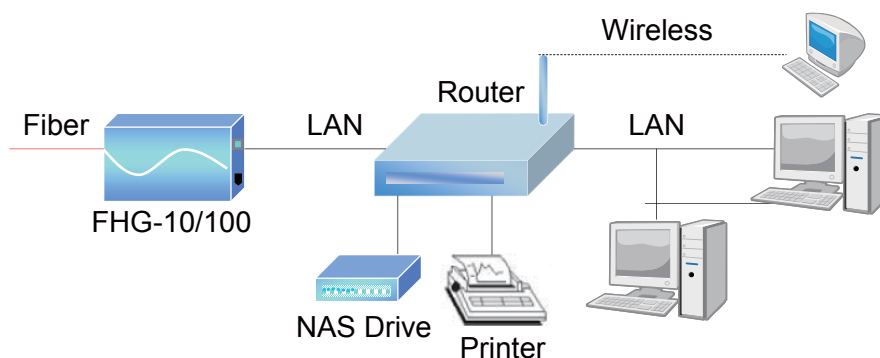AC Adapter : input voltage: 90 ~ 240V AC 47/63Hz
output voltage: 9VDC/1A

Environmental Specifications
Operating 0°C ~ 50°C
Storage -10°C ~ 70°C
Relative humidity 5% ~ 90% non-condensing
Predicted MTBF : 65,000 hrs

Certification
FCC class A, VCCI class A, CE, RoHS

Flexible delivery of broadband services

Wireless

Fiber — FHG-10/100 — LAN — Router — LAN

NAS Drive

Printer

Ordering Information
FHG-☐☐☐☐☐
10/100 : 10/100Base-TX to 100Base-FX

Descriptions of four modes function

1, Store and Forward
IP113A will begin to transmit a frame right after the completion of receiving a frame.
2, Modify Cut Through
IP113A will begin to forward a frame after the first 64 bytes data received. TP port should be forced at 100M at this mode.
3, Converter mode
Incoming frames are not buffered in IP113A to achieve the min latency. TP port should be forced at 100M at this mode.
4, Converter mode with Auto Change Store and Forward
IP113A will change to forward mode if it detects the speed is different in TP port and FX port.

Flexibility is the key to open service delivery

The FHG-10/100 allows flexibility in providing services to end-user equipment with the right quality of service (QoS). This section describes how flexibility enables open service delivery of broadband data service.

Broadband Services

The FHG-10/100 product philosophy allows the end user to follow and thus benefit fully from the fast developments in home-networking solutions. The CPE as the interface between the digital broadband network and the user peripheral equipment, such as routers, wireless access points, servers, and printers. With generations of computers and home networking equipment coming and going the FHG-10/100 will be a constant and reliable factor for the delivery of broadband data services.

These services are not limited to today's broadband internet applications. In the next few years, end-users will also benefit from next generation health-care, security, communication and infotainment service. The FHG-10/100 CPE platform fully supports today/s services and is ready for the next wave of new broadband services. Flexibility is key, since the CPE functionality must be matched to the requirements of those new services. whatever they are.

Quick installation

The installation of the wall-mount units of FHG-10/100 CPE is swift and straightforward. Because of its size and ideal dimensions, the FHG-10/100 CPE can be positioned easily at the user residence or home. The FHG-10/100 design allows easy access for mounting and does not need the small elements, making the installation process predictable and hassle-free. The wall-mount unit includes integrated fiber tray not only make fiber handling and termination easy and robust, but also eliminate the need for optical patch cords.