ZyXEL

- **IP Based P2P Fiber for High Speed Internet Access**
- **QoS Optimize Time-sensitive Applications**
- **802.11n Technology for Extreme Performance and Coverage**
- **Eco-friendly Wireless On/Off Button Empowers Easy Way to Save Energy**
- **Easy Fiber Installation for Fiber Termination Unit Inside**

FSG1100HN
Wireless Active Fiber Router

Active Fiber Router for FTTH Triple-Play Service

Benefits

Integrated Internet Services through Fiber

The FSG1100HN features with 100Base WAN Fiber interface, integrated four port Ethernet switch of 10/100 Mbps, and also Wireless LAN supports of 802.11b/g/n (1x1). It is not just an edge device of Fiber network but also a performance router for subscribers to bridge the most popular fiber service with optimized bandwidth from Telco/Service Provider and various applications from wired/wireless LAN (Local Area Network).

Quality of Service (QoS) for Triple-play Traffic and Bandwidth Management

The FSG1100HN equipped with QoS features. Service Provider can base on their service plan to freely design their QoS policy and prioritize the mission-critical services such as IPTV and VoIP. This increases the network efficiency and also the productivity to enable the Service Provider to bring the real multi-play into residential user's life.

802.11n Technology for Extreme Performance and Coverage

The FSG1100HN series featuring 802.11n Technology provides the ultimate solution for speed and coverage. With data rate up to 150 Mbps, FSG1100HN provides stable and reliable wireless connections for high speed data and multimedia delivery. It eliminates dead zones and extends coverage by using coming IEEE 802.11n technology and backwards compatible with any IEEE 802.11b/g Wi-Fi certified device.

Eco-friendly Wireless On/Off Button Empowers Easy Way to Save Energy

To respond to the concept of green earth, FSG1100HN series equips with wireless on/off button that assists users to easily manage energy consumption. By just one click to shut down wireless power, energy can be saved and utilized more efficiently when wire wireless communication is not used. At meanwhile, the wired communication is still on and won't be effected.

Various Interfaced FTU for Easy Fiber Installation

With FTU (Fiber Termination Unit) built-in, FSG1100HN series smoothes the pain of Fiber service deployment for Telco/SP. Various Fiber WAN interfaces provided to choose from simplex or duplex. Service provider is able to select the best fitting their infrastructure to delivery FTTH service with effective cost and minimum implementation efforts, so the TCO (Total Cost of Ownership) could be easily managed.

Active Fiber · 150 802.11 N · 10/100 Ethernet · Firewall · Bandwidth Management · WPS

Specifications

System Specifications

WAN

- 100Base-LX10/BX10 compliance
- IEEE 802.3ah EFM compliance
- Full/half duplex auto-negotiation
- Wavelength 1310 nm (SC duplex) or 1310/1550 nm (SC simplex)
- Single-mode optical fiber support
- SC duplex/simplex connector interface 10/20 Km distance support
- Class 1 laser product

Router Features

- 802.1d transparent bride
- PPPoE via PAP, CHAP auth
- NAT/PAT
- NAT server (port forwarding)
- SIP, RTSP ALG
- IP alias
- DHCP client/server
- RIP I/RIP II support*
- IP static route
- IP policy routing*
- IP multicasting, IGMP v1 & v2
- IGMP proxy/snooping
- PPTP/L2TP/IPSec VPN pass through*
- PPPoE pass through
- Dynamic DNS
- NTP

QoS

- Flexible classification rule (by LAN, IP…etc.)
- Rate limiting
- Queue Mgt.: SP, WFQ*
- 802.1Q, 802.1P tagging
- TOS/DiffServ tagging

Management

- Web GUI
- Embedded FTP/TFTP for f/w upgrade and config file backup and restore
- Remote management control configurable
- Syslog
- TR-069 compliance

Firewall Security

- Stateful packet inspection
- Prevent DoS attack
- Access control of service
- IP & generic packet filtering
- Real-time attack alert and logs

Wireless

- IEEE 802.11b/g/n (1x1) compliance
- Button for WLAN on/off
- WPS
- WEP 64/128-bit support
- WPA/WPA2 support
- 20 MAC address filter
- Multiple ESSID

Hardware Specifications

- Antenna: one 2 dBi, detachable
- WAN: duplex or simplex SC connector, single-mode fiber, 100BASE-LX/BX10 compliance
- LAN: 4 port 10/100 Ethernet
- Reset button: restore factory defaults
- WPS button
- Fiber termination unit support

Physical Specifications

- Item weight: 355 g (0.78 lb)
- Item dimensions:
  200 (W) x 140 (D) x 40 (H) mm
  (7.87 (W) x 5.51 (D) x 1.57 (H) inches)
- Packing weight: 715 g (1.58 lb)
- Packing dimensions:
  273 (W) x 228 (D) x 65 (H) mm
  (10.74 (W) x 8.97 (D) x 2.56 (H) inches)

Environmental Specifications

Operating Environment

- Temperature: 0°C ~ 40°C
- Humidity: 20% ~ 85% RH (non-condensing)

Storage Environment

- Temperature: -20°C ~ 65°C
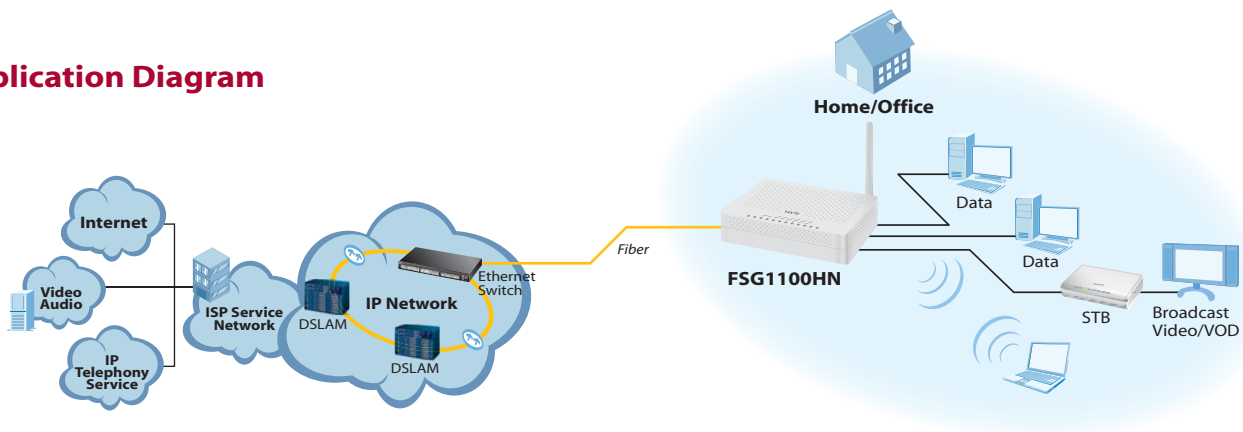- Humidity: 20% ~ 90% RH (non-condensing)

Certification

- Safety: EN60950-1
- EMI: CE

Feature released in future F/W upgradeable.

Product Description

- FSG1100HN Simplex SC
  Wireless Active Fiber Router with Simplex SC connector
- FSG1100HN Duplex SC
  Wireless Active Fiber Router with Duplex SC connector

Application Diagram

For more product information, visit us on the web at www.ZyXEL.com

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