ZyXEL

Future-Proof Gigabit Active Fiber IAD for Triple Play

- **Extreme routing performance to take advantage of FTTH applications**
- **Robust SPI firewall protection**
- **Advanced QoS ensures triple-play service quality**
- **Remote provisioning and management through TR-069**
- **Coaxial interface for CATV services (FMG3024-D10A)**
- **Easy installation with a buckle-up fiber tray**
- **2.4 GHz 11n for superior performance and coverage (optional)**

Benefits

Integrated Internet services through fiber

The ZyXEL FMG3024-D10A/FMG3025-D10A Gigabit Active Fiber VoIP IAD features 100/1000BASE WAN fiber interface and integrates a four-port 10/100/1000 Mbps Ethernet switch. It is not just a fiber network edge device, but also a high-performance VoIP IAD for subscribers to bridge the most popular fiber services with optimized bandwidth from telcos/service providers and various applications from the wired/wireless LAN.

Quality of Service (QoS) for triple-play traffics and bandwidth management

The ZyXEL FMG3024-D10A/FMG3025-D10A is equipped with IP QoS features for service providers to freely design QoS policies and to prioritize mission-critical services, such as IPTV and VoIP, based on their individual service plans. This increases network efficiency and productivity for service providers to deliver real multi-play applications to residential users.

TR-069 remote management for easy installation

With the TR-069 management standard, service providers are able to manage and configure client devices remotely without manual intervention from end-users. This unique feature not only offers users the true "plug-and-play" experience but also reduces deployment complexity, and therefore saves operating and maintenance costs for service providers.

Modular design for CATV service (FMG3024-D10A)

The ZyXEL FMG3024-D10A can be fitted in FTTH environments as a CPE to provide a variety of services such as broadband, VoIP and CATV that require high-speed fiber networks. In addition to a fiber connector for data transmission, a dedicated fiber connector has been built in for video streaming signals. With this dedicated fiber link, users can enjoy CATV services from service provider via the F-type output interface.

Buckle-up fiber tray for easy installation

The ZyXEL FMG3024-D10A/FMG3025-D10A has been designed with a passive fiber tray that can be preinstalled at customer sites along with the fiber optical network being constructed. As the homeowners decide services, such as broadband, VoIP, IPTV or Cable TV, they would like to have at home, the service provider can deliver those services by sliding a gateway onto the top of fiber tray with a simple click.

ZyXEL green

FMG3024-D10A
FMG3025-D10A
Gigabit Active Fiber VoIP IAD

Specifications

System Specifications

WAN
- 1000BASE-BX10 compliance
- IEEE 802.3ah EFM compliance
- Full duplex transmission
- TX 1310 nm/RX 1490 nm/RX 1550 nm
- 10 km distance support
- Class 1 laser product

Wireless (optional)
- USB 2.0/1.1 interface WiFi dongle
- IEEE 802.11n 2.4 GHz with up to 300 Mbps data rate
- WEP data encryption (64/128 bit)
- WPA/WPA2, WPA-PSK/WPA2-PSK

Networking
- PPPoE via PAP, CHAP auth
- Network Address Translation (NAT)/Port Address Translation (PAT)
- NAT server (port forwarding)
- Virtual Private Network (VPN) pass through (IPSec, PPTP, & L2TP)
- DNS proxy/Dynamic DNS
- IP alias
- DHCP client/server
- RIP I/RIP II
- IP static route/policy route
- IGMP proxy/snooping
- IP multicasting, IGMP v1 & v2
- Network Time Protocol (NTP)

Voice
- G.711 a/u, G.729a/b, G.726 codec
- G.168 echo cancellation
- T.38 fax relay
- Fax/modem detection and pass through
- Voice Activity Detection (VAD)
- Silence suppression

- Comfort Noise Generation (CNG)
- Dynamic jitter buffer
- DTMF detection and generation
- DTMF relay by In-Band and Out-of-Band
- Multiple SIP number supports

Phone Features
- Call waiting/hold/forwarding/transferring/return
- 3-Way conference
- Caller ID generation
- Calling Line Identification Presentation (CLIP)
- Country code selection
- Speed dial (phone book)
- Do NOT disturb

QoS
- 802.1Q/P VLAN
- TOS/DiffServ
- Flexible classification rule
- IP policy route per VLAN
- Support 4 priority queues
- Traffic shaping, rate limiting

Security
- Stateful packet inspection
- Prevent DoS attack
- Content filtering
- Real-time attack alert and logs

Management
- Web GUI (HTTP/HTTPS)
- Firmware upgrade via Web/FTP/TFTP
- Remote management control (HTTP/Telnet)
- TR-069/098/104/111
- Syslog
- Text-based configuration

Hardware Specifications
- WAN:
  - 1 fiber SC/PC connector, 100/1000BASE-BX simplex (FMG3025-B10A)
  - 2 fiber SC/PC connector, 100/1000BASE-BX simplex (FMG3024-B10A, 1 for data, 1 for video)
- LAN: 4 ports 10/100/1000 Mbps Ethernet
- FXS: 2 POTs ports
- USB: 1 USB port
- Button: Power on/off, reset
- CATV: 1 CATV RF coaxial F-connector (FMG3024-D10A)

Physical Specifications
- Item dimensions (WxDxH):
  164 x 112 x 45 mm (6.46" x 4.41" x 1.77")
- Item weight:
  - FMG3024-D10A: 301 g (0.67 lb.)
  - FMG3025-D10A: 279 g (0.62 lb.)
- Packing dimensions (WxDxH):
  238 x 176 x 61 mm (9.37" x 6.93" x 2.4")
- Packing weight:
  - FMG3024-D10A: 704 g (1.56 lb.)
  - FMG3025-D10A: 682 g (1.51 lb.)

Environmental Specifications

Operating Environment
- Temperature: 0°C to 40°C (32°F to 104°F)
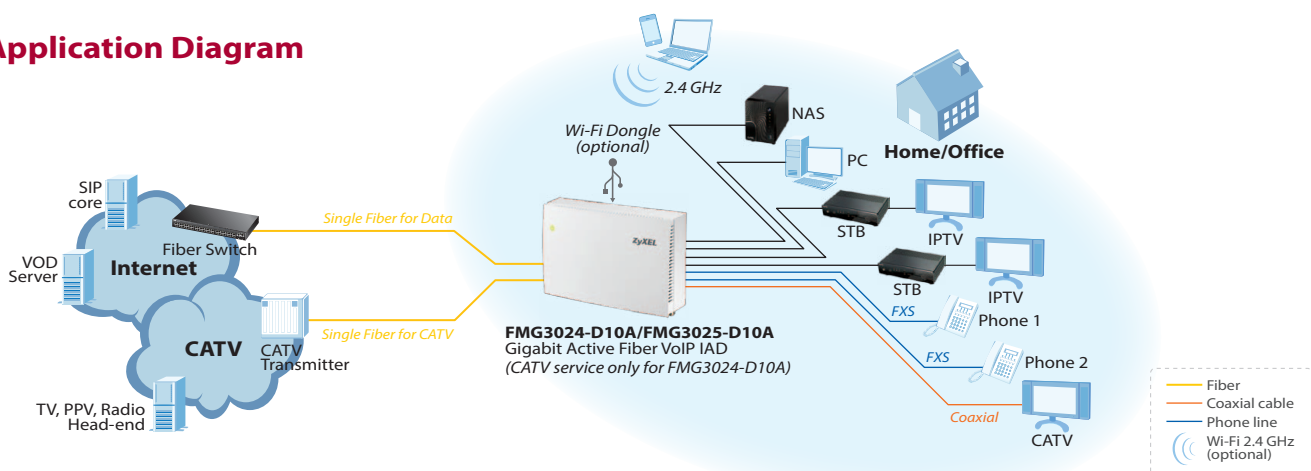- Humidity: 20% to 95% RH (Non-condensing)

Storage Environment
- Temperature: -30°C to 70°C (-22°F to 158°F)
- Humidity: 10% to 95% (Non-condensing)

Certification
- Safety: EN60950-1
- EMI: CE

Application Diagram

FMG3024-D10A/FMG3025-D10A
Gigabit Active Fiber VoIP IAD
(CATV service only for FMG3024-D10A)

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