



## XMG5101-S10A

### G.fast Bridge Modem with 1-port GbE/Coaxial

The Zyxel XMG5101-S10A G.fast Bridge Modem provides high-speed G.fast Internet access to meet the market demand for high-performance Gigabit networks. This model also features built-in Ethernet LAN capability that relieves troublesome wiring works. Additionally, it has flexible RJ-14 twisted-pair or coaxial interfaces for G.fast access.

### Benefits

#### G.fast provides high-throughput broadband services

The Zyxel XMG5101-S10A G.fast Bridge Modem supports G.fast with bandwidths ranging from 2 to 106 MHz. The bandwidth is up to 1 Gbit/s PHY rate. It is flexible to update downstream/upstream rates to enable operators to adjust services for different service demands.



Compliant with the ITU-T G.fast Recommendation (G.9700/1)



Support RJ-14 twisted-pair and coaxial ports for G.fast connection



Gigabit Ethernet ports



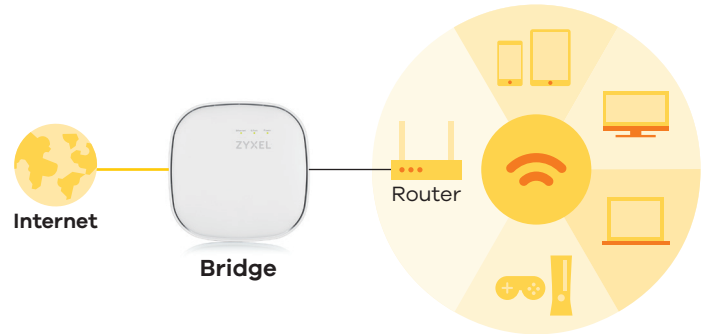
## Multiple WAN options for flexible deployments

The built-in RJ-14 and coaxial ports provide flexible G.fast Internet access technology. The RJ-14 port allows the Zyxel XMG5101-S10A to keep using the existing twisted-pair connection for Internet access, while the coaxial port makes the XMG5101-S10A fit into cable networks to access G.fast technology.

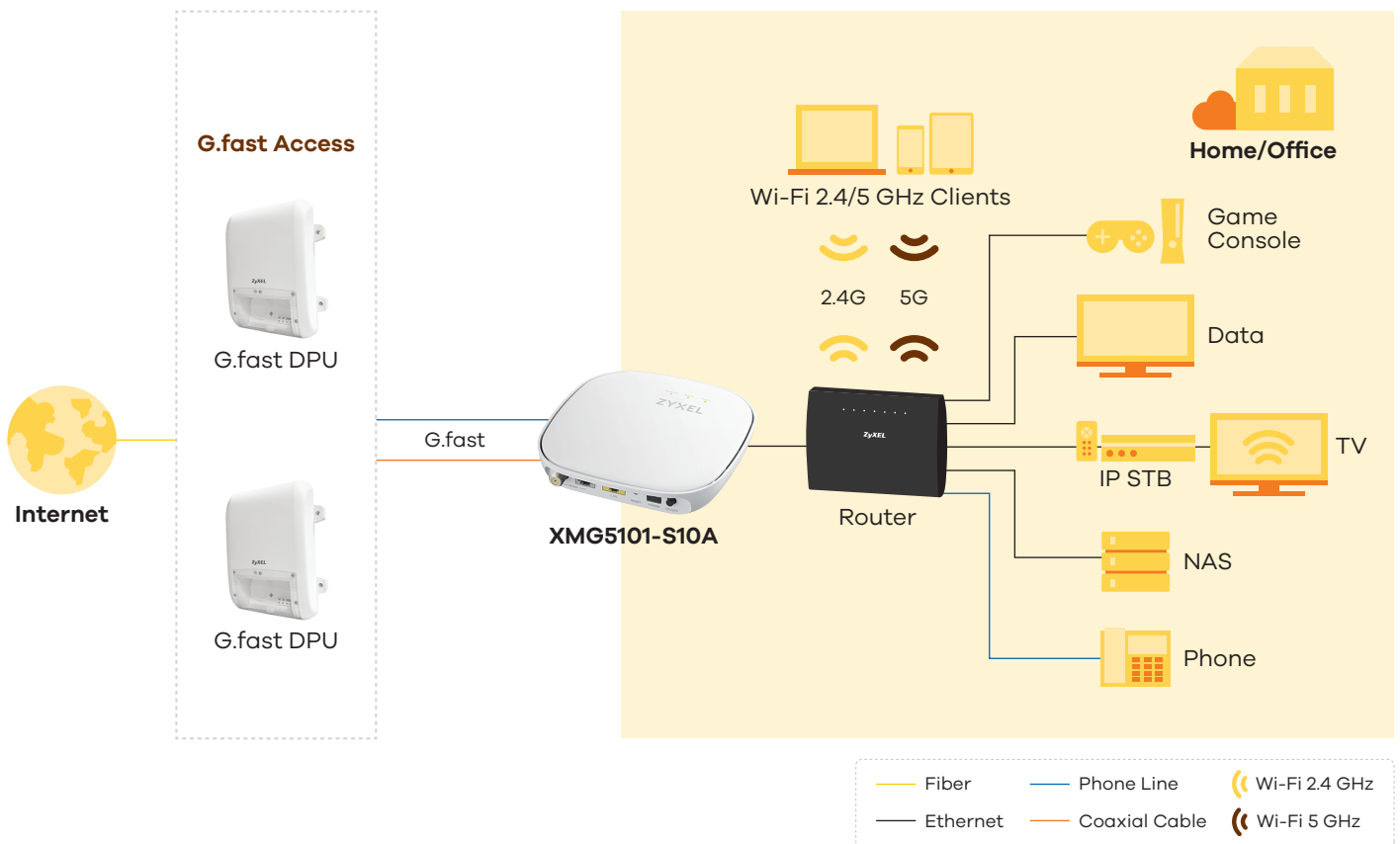


## Pure bridge modem to keep the existing infrastructure

The Zyxel XMG5101-S10A is a pure bridge modem. It uses Gigabit Ethernet port to connect to the existing broadband routers, so operators can keep using the existing infrastructure and QoS to maintain services. It helps operators to offer Gigabit services with rapid deployments at the lowest cost.



## Application Diagram



# Specifications

## System Specifications

### G.fast PHY Standards

- The modem complies to ITU-T G.9700
- The modem complies to ITU-T G.9701
- The modem complies to ITU-T G.994.1 (G.hs)
- Initial configuration and initialization via G.hs.
- The modem complies to ITU-T G.997.2 based management

### G.fast General

- Compliant with the ITU-T G.fast Recommendation (G.9700/1)
- Supports ITU-T G.997.1 extensions for G.fast
- Bandwidth: 2 - 106 MHz
- Flexible downstream/upstream data rate follow DPU
- Support DTA (Dynamic Timeslot Allocation) on Coaxial

### Giga LAN Conformance

- IEEE 802.3ab (1000BASE-T)
- IEEE 802.3x (Full Duplex)

### Management

- Support remote firmware upgrade by DPU
- Support dual-image
- Link rate adaptation by DPU

## Hardware Specifications

- LAN:
  - One GbE RJ-45 port, 8P8C, 1000 Mbps Ethernet
  - Supporting N-way, auto-sensing, auto-detection MDI/MDI-X
- G.fast port:
  - One RJ-14 port for G.fast link
  - One Coaxial — F-Connector
- Button:
  - Power jack
  - Power on/off switch
  - Reset button
- Status LEDs indicators: PWR, G.Fast, ETHERNET
- Power consumption: 12V DC 0.5A

## Physical Specifications

- Item dimensions (WxDxH): 129.9 x 129.9 x 36.6 mm (5.11" x 5.11" x 1.44")
- Item weight: 155 g (0.34 lb.)
- Packing dimensions (WxDxH): 237 x 138 x 41.6 mm (9.33" x 5.43" x 1.63")
- Packing weight: 388 g (0.85 lb.)

## Environmental Specifications

### Operating Environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 10% to 90% RH (Non-condensing)

### Storage Environment

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

## Certification

- FCC

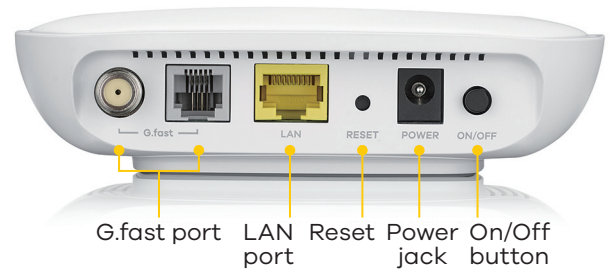
## Package Contents

- XMG5101-S10A modem
- Power adapter
- Ethernet cable
- Phone cable
- Quick start guide

## Front Panel



## Rear Panel



# ZYXEL

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