GM4100-B0

G.fast 212MHz VDSL2 Bridge

The Zyxel GM4100-B0 is a G.fast 212 MHz bridge that provides excellent premium-class line speeds up to 1.8 Gbps in a short loop for broadband services to extend the coverage and performance for enhanced user experience. While service providers can manage and maintain internet and the modem functions with TR-069. Subscribers can take advantage of the increased bandwidth for broadband applications like Internet browsing, online gaming, video streaming and Internet voice calling.
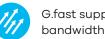
Benefits

Ultra speed for UHD 4k TV service

The GM4100-B0 supports G.fast with vectoring of up to 212 MHz profile. G.fast vectoring reduces cross-talk to increase broadband access performance, which further enables operators to offer better UHD 4k IPTV services.

Zyxel OPAL firmware achieves superior flexibility and faster time-to-market

Compliant with the same OPAL firmware trunk applied in all Zyxel CPEs, the Series inherits a rich, field-proven feature set for guaranteed unchanged user experience even after migrating to the new devices.

G.fast supports up to bandwidth 212 MHz

Remote management via TR-069

Zyxel-developed OPAL for superior flexibility and faster time-to-market

Comprehensive QoS for network efficiency

NAT, firewall with SPI and DoS for better security

Intuitive graphical user interface

TR-069 remote management

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

Quality of Service (QoS) support

With QoS features, service providers can freely design their QoS policies and prioritize mission-critical services such as IPTV and VoIP based on their service plan offerings. This improves network efficiency and productivity that enable service providers to offer a real multi-play solution to meet the residential user needs.

Specifications

System specifications

Bridge features
- IEEE 802.1D transparent bridge & basic spanning tree
- PPPoE (RFC 2516)
- PPPoA (RFC 2364)
- MAC Encapsulation Routing/IPoE
- DHCP client/server/relay with DHCP option 43/60/61
- IPv6: dual stack, 6RD

QoS
- 802.1Q VLAN tagging/un-tagging
- Supports flexible traffic classification
- Supports VLAN staking (QinQ)

Networking
- LAN setup
- VLAN group
- Interface group

Management
- Web/HTTP: 3 level log-in
- CLI (Command Line Interpreter) via SSH or Telnet
- Firmware upgrade via Web/TFTP/ FTP/TR-069 RPC method
- Text based configuration (XML based)
- Configuration backup/update/ restore default via web
- Configurable access control for remote management (Interface and/ or port number)
- Trust domain (support trust domain list)
- NTP (Internet time automatically synchronize)
- DSL forum TR-069, TR-098, TR-181
- Supports Rom-D
- Session login (for multiple user configuration with login privilege)
- Configuration filter by login privileges

Firewall & security
- DoS attack prevention
- Certification

System monitor
- xDSL statistics
- Traffic status
- MAC address table
- ARP table
- System log

G.fast
- G.9700/9701
- G.994.1 (G.handshack)
- G.997.2 (Phy-Layer management)

VDSL
- G.993.1 VDSL
- G.993.2 VDSL2, Band 997, 998, over POTS
- Supports VDSL profiles: 8a/b/c/d, 12a/b, 17a, and 35b
- G.vector

ADSL
- G.992.1 (G.dmt)
- G.992.2 (G.lite)
- ANSI T1.413 compliant
- G.992.3 (ADSL2)
- G.992.5 (ADSL2+)
- G.INP support

Hardware specifications

WAN
- One G.Fast/VDSL2 RJ-11 port

Ethernet port
- Two 10/100/1000 Mbps RJ-45 (8P8C)

LED indicators
- Power
- G.fast
- LAN1
- LAN2

Button
- Power on/off
- Reset

Power consumption
- 12 V DC, 1 A

Physical specifications
- Item dimensions (WxDxH): 130 x 120 x 32 mm (5.12" x 4.72" x 1.26")
- Item weight: 173 g (0.38 lb.)
- Packing dimensions (WxDxH): 245 x 142 x 42 mm (9.65" x 5.59" x 1.65")
- Packing weight: 380 g (0.84 lb.)

Environmental specifications

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

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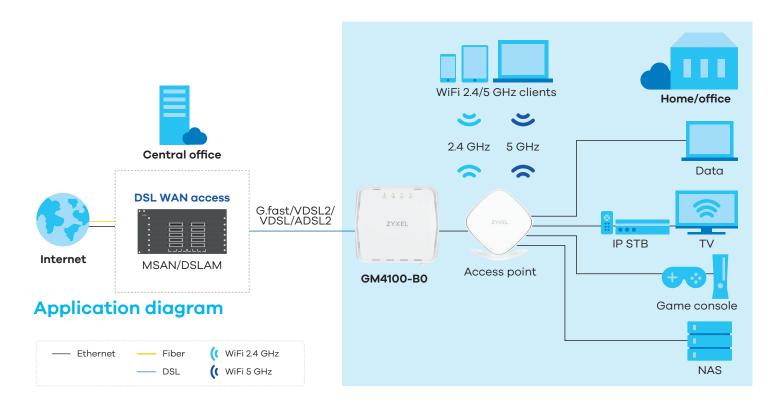- Humidity: 10% to 95% (Non-condensing)

Certification
- CE

Package contents
- G.fast 212 MHz VDSL2 bridge modem
- Phone cable
- Power adapter
- Quick Start Guide
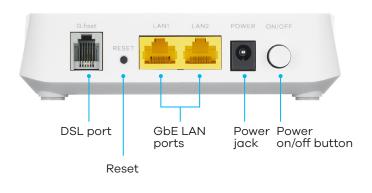- DoC & safety warning card

Application diagram

—— Ethernet	—— Fiber	((WiFi 2.4 GHz	
	—— DSL	((WiFi 5 GHz	

Hardware interface

Front panel

Rear panel

DSL port

Reset

GbE LAN ports

Power jack

Power on/off button

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