

HIGH POWER AC2050

G.FAST VDSL GATEWAY

400mW High Power | AC2050 | TR-069 | 5 Gigabit Ports | 2FXS Ports

PRODUCT OVERVIEW

The GFR-9510 G.fast VDSL Gateway, through G.fast technology, uses existing copper infrastructure to offer Gigabit speeds over short distances (200 meters), making it the ideal alternative to FTTH installations.

- Avoids long buffer times with the latest Quantenna 802.11ac Wave 2 technology
- Offers gigabit speeds for the latest high-bandwidth applications and services such as streaming HD and UHD IPTV, accessing home-automation, and playing online games
- Reduces truck rolls with remote management to easily fix wireless issues



KEY BENEFITS

A Low-Cost Alternative to FTTH Deployments

G.Fast can be deployed without trenching Fiber to every residence. The GFR-9510 utilizes existing copper for Gigabit speeds at one-fifth of the cost of FTTH.

Improves Customer Service & Lowers Operational Costs

TR-069 device management enables service providers to remotely manage and configure their devices.

Provides Optimized Performance

High power 400mW Wireless technology extends Wireless coverage to reduce dead zones in the home or office.

Maximizes Video Streaming

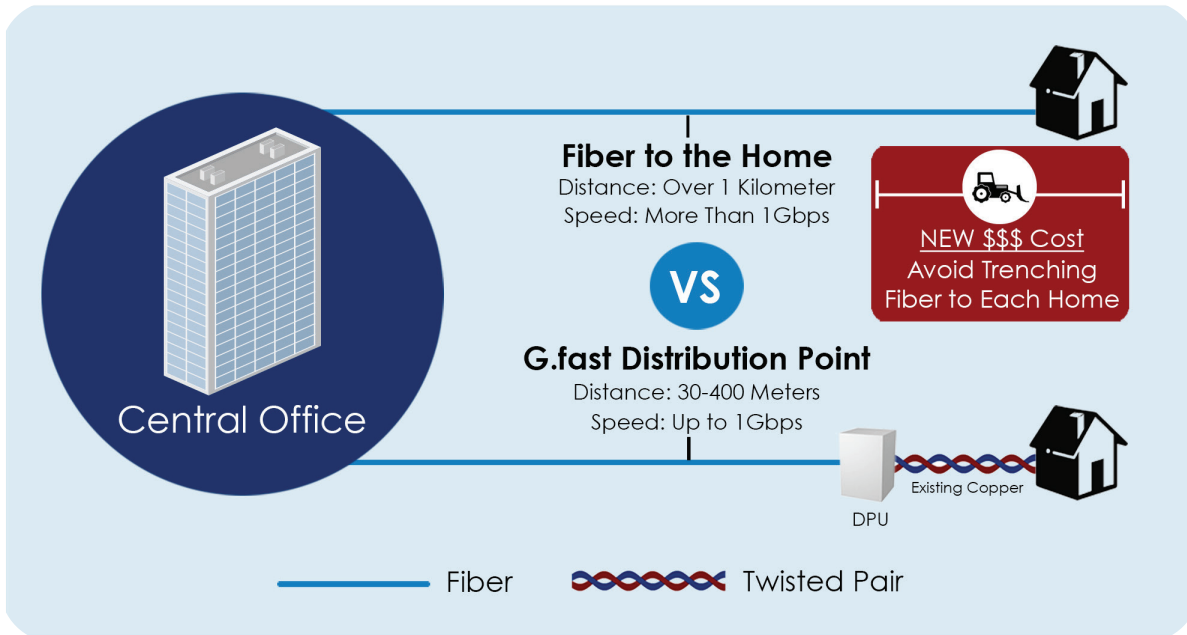
Equipped with Quantenna's latest 802.11ac Wave 2 technology, the GFR-9510 delivers super-charged 4x4 AC2050, MU-MIMO Wireless connectivity with dynamic beamforming to enhance video experience.



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SAVE TIME AND MONEY WITH G.FAST

Use Existing Copper to Reach Gigabit Speeds



Blazing-Fast Wireless

AC2050 4x4 MU-MIMO



GFR-9510

SPECIFICATIONS

Hardware

- RJ-11 X 1 for G.fast/VDSL/ADSL2+
- RJ-45 X 4 for LAN (10/100/1000 Base-T Auto-Sense)
- RJ-45 X 1 for WAN (10/100/1000 Base-T Auto-Sense)
- FXS X 2
- Reset Button X 1
- WPS & WiFi On/Off Button X 2
- WiFi Antennas X 4 (Internal X 2, External X 2)
- Power Switch X 1
- USB 3.0 Host X 1

G.fast Features

- ITU-T G.fast G.9700, G.9071, and G.997.2
- Supports 106MHz Single Line G.fast

VDSL Features

- Supports VDSL profiles, 8a/b/c/d, 12a/b, 17a, 30a and 35b
- Supports VDSL Band Plan, Annex A, 997, 998
- Packet Transfer Mode (PTM) up to 17a Bonding
- US0 Support
- Seamless Rate Adaption (SRA)
- G.INP Support
- G.Vector Support

ADSL Features

- T1.413, G.992.1 (G.dmt), G.992.2 (G.lite), G.992.3 (ADSL2) and G.992.5 (ADSL2+)
- Annexes A, L (Reach Extended ADSL2), and M (Enhanced Upstream Speed)
- Seamless Rate Adaption (SRA)
- Supports VC-Based and LLC-Based Multiplexing
- Supports up to 16 PVCs
- ATM Shaping: UBR/CBR/VBR-rt//VBR-nrt
- G.INP Support

WLAN

- IEEE 802.11n 2.4GHz, Backward Compatible with 802.11b/g
 - 400mW High Power
 - 2T2R Antenna Array
 - Up to 300Mbps PHY Rate
- IEEE 802.11ac 5GHz, Backward Compatible with 802.11a/n
 - 400mW High Power
 - 4T4R Antenna Array
 - Up to 1733Mbps PHY Rate
- WPA/WPA-PSK, WPA2/WPA2-PSK with TKIP & AES Security Type
- Multiple SSID
- MAC Address Filtering

LAN

- 10/100/1000 Base T, IEEE 802.3, IEEE 802.3u IEEE 802.3ab
- Supports MDI/MDIX

Voice Functions

- SIP: RFC 3261; MGCP: RFC 3435; Codec: G.711, G.723, G.726, G.729ab; RTP: RFC 1889; SDP: RFC 2327; Echo Cancellation: G.168
- Caller IDL ETSI Based
- Silence Suppression

Management

- TR-069/TR-098/TR-104/TR-111/TR-181, SNMP, Telnet, Web-Based Management, Configuration Backup and Restoration
- Fine Point's TR-069 Enhanced Functionality is Available on this Model with Specified Software
- Software Upgrade via HTTP, TFTP Server, or FTP Server

Networking Protocols

- RFC 2364 (PPPoA), RFC 2684 (RFC 1483) Bridge/Router, RFC 2516 (PPPoE); RFC 1577 (IPoA)
- PPPoE Pass-Through, Multiple PPPoE Sessions on Single WAN Interface
- PPPoE Filtering of Non-PPPoE Packets Between WAN and LAN
- Transparent Bridging Between all LAN and WAN Interfaces
- 802.1p/802.1q VLAN, DSCP
- IGMP Proxy V1/V2/V3, IGMP Snooping V1/V2/V3, Fast Leave
- Static Route, RIP v1/v2, ARP, RARP, SNTP
- DHCP Server/Client/Relay, DNS Proxy/ Relay, Dynamic DNS, UPnP, DLNA
- IPv6 Dual Stack, IPv6 Rapid Deployment (6RD)

Firewall/Filtering

- Stateful Packet Inspection Firewall
- Stateless Packet Filter
- Parental Control
- URI/URL Filtering
- Denial of Service (DOS): ARP attacks, Ping Attacks, Ping of Death, LAND, SYNC, Smurf, Unreachable, Teardrop
- Port Scan Detection and Protection
- TCP/IP/Port/Interface Filtering Rules Support Both Incoming and Outgoing Filtering

NAT/PAT

- Support One to One, Many to One, Many to Many (Overload), Many to Many (No Overload) NAT
- NAT Loopback
- Port Triggering
- Port Forwarding (Virtual Server)
- Symmetric Port-Overloading NAT, Full-Cone NAT
- DMZ host
- VPN Pass Through (PPTP, L2TP, IPSec)

USB

- File Sharing & Printer Server

Environmental Conditions

- Operating Temperature: 32~104°F (0~40°C)
- Relative Humidity: 5~95% (Non-condensing)
- Dimensions
 - 11.05 x 7.05 x 1.50in (WxDxH)
 - 280 x 180 x 38mm (WxDxH)
- Weight
 - 1.35lbs; 612g

Note: Specifications are subject to change without notice.