

G.Fast/xDSL, Dual Band WiFi

G.Fast | Giga Ethernet Port | VoIP | WiFi 11n&11ac

GFR-9511u

G.Fast IAD



G.Fast is a digital subscriber line (DSL) standard for shorter local loops, with performance targets between 150 Mbit/s and 1 Gbit/s, depending on loop length. G.Fast uses a very wide frequency range, up to 106MHz (to be compared with 17MHz for VDSL2 35b) to deliver (up to) 1Gbps

GFR-9511u is a G.Fast (fallback VDSL2/ADSL2+) IAD using the BCM 63138. It not only provides Giga bits access (G.Fast) but also fallback VDSL2/ADSL2+ work on existing infrastructure. Integrated 5 Giga Ethernet ports and WLAN 802.11n 2.4GHz frequency band and 802.11ac 5GHz Frequency band. GFR-9511u own 1*USB2.0 host port which provide high speed access with USB device such as printer server, 3G dongle, HDD, and future DLNA connectivity. It also has two FXS ports for the VoIP service. In addition, GFR-9511u follow TR-069 then center management (ACS) is easily.

FEATURES

- G.Fast fallback VDSL2
- Supports both ADSL2+ and VDSL2 (up to 35b Profile); support G. Vectoring
- Automatically switches to ADSL2+ /VDSL2/G.fast according to the port setting of DSLAM
- IP QoS
- UPnP
- Integrated 802.11 b/g/n AP
- WAP and 802.1x
- RADIUS client
- IP/MAC address filtering
- Static route/RIP/RIP v2 routing functions
- IGMP Proxy and fast leave
- DHCP Server/Relay/Client
- Supports QoS (Quality of Service) for voice
- Supports caller ID display and restriction
- Supports call hold, call waiting, call forwarding, call transfer, 3-way conference
- Supports Direct number dialing
- Supports T.38
- Supports VPN Pass-Through
- Supports Day-time parental control
- Supports TR-069/TR-098/TR-104/TR-111
- Supports remote administration, automatic firmware upgrade and configuration
- User Friendly Color connections

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SPECIFICATIONS

Hardware

- RJ-11 X1 for G.Fast fal back VDSL2/ADSL2+
- RJ-45 X 4 for LAN,
- RJ-45 X 1 for WAN,
- FXS X2
- Reset Button X 1,
- WPS button x 1
- Wi-Fi On/Off button X 1
- Internal Wi-Fi Antennas x 1
- External Wi-Fi Antennas x 2
- Power switch X 1
- USB 2.0 Host X 1

WAN

- G.Fast / VDSL2 / ADSL2+
- 10/100/1000 Base T, IEEE 802.3, IEEE 802.3u IEEE 802.3ab

LAN

- IEEE 802.3, IEEE 802.3u IEEE 802.3ab
- 10/100 /1000 BaseT auto-sense
- Support MDI/MDX

WLAN

- IEEE 802.11n 2T2R, backward compatible with 802.11g/b
Up to 300 Mbps data rate
- IEEE 802.11ac 3T3R, backward compatible with 802.11n/a
Up to 1.3 Gbps data rate
- 64, 128-bit Wired Equivalent Privacy (WEP) Data Encryption
- 11 Channels (US, Canada)/ 13 Channels (Europe)/ 14
Channels (Japan)
- MAC address filtering, WEP, WPA, IEEE 802.1x

ATM Attributes

- RFC 2364 (PPPoA), RFC 2684 (RFC 1483) Bridge/Route;
RFC 2516 (PPPoE); RFC 1577 (IPoA)
- Support 16 PVCs
- AAL5
- UBR/CBR/VBR
- UNI 3.1/4.0
- OAM F4/F5

Management

- SNMP, TR-069/TR-098/TR-104/TR-111, SNMP, Telnet,
Web-based management, Configuration backup and
restoration. Software upgrade via HTTP, TFTP server, or FTP
server.

Bridge Functions

- IEEE 802.1d
- VLAN support
- Spanning Tree Algorithm
- IGMP Proxy

Routing Functions

- Static route, RIP, and RIPv2, NAT/PAT, DHCP Server/DHCP
Relay, DNS Proxy, ARP

Security Functions

- PAP, CHAP, TCP/IP/Port filtering rules, Port
triggering/Forwarding, Packet and MAC address filtering,
access control, SSH

QoS

- L3 policy-based QoS, IP QoS, ToS

Voice Functions

- SIP: RFC 3261
- MGCP: RFC 3435
- Codec: G.711, G.723.1, G.726, G.729ab
- RTP: RFC 1889
- SDP: RFC 2327
- Caller ID: ETSI based
- Echo cancellation: G.168
- Silence suppression

Power Supply

- External power adapter: 12VDC/ 2.5A

Environmental Conditions

- Operating temperature: 0 ~ 40 degrees Celsius
- Relative humidity: 5 ~ 95% (non-condensing)



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