FG500 Gigabit Fiber Gateway

Next generation gigabit residential gateway for FTTH

FG500 is the next generation Gigabit residential fiber gateway for Fiber to the Home. FG500 is built to fit the same fiber tray and CATV module as the FG100 series. FG500 features auto sensing WAN, 100/1000 Base-BX interface, four Gigabit Ethernet LAN ports, two FXS POTS ports, two USB host 2.0 and 802.11n WiFi. FG500 is designed with a passive fiber tray that can be preinstalled in the customer premises and an active CPE part that will slide onto the passive fiber tray. The fiber tray may be equipped with a remote managed CATV module.

Key features

- Auto sensing WAN interface GbE (100/1000 Base-BX, SC connector)

- Four Gigabit Ethernet LAN

- 802.11n WiFi (removable module)

- Two USB host 2.0

- Two FXS ports for VoIP

- Remote management via HTTP, TFTP or TR-069

- Supports TR-069, TR-104, TR-111 part 1, TR-140

- Based on Broadcom 6818 CPU

- Optional CATV module with remote management

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Specifications, hardware

Local Interface
- Four 10/100/1000 Base-T Ethernet ports

- Integrated 802.11n WLAN Access Point with external or internal antennas, back ward compatible with 802.11b/g

WAN Interface
- 100/1000 Base-BX

- Single-mode single fiber transceiver

- Operates at a nominal wavelength of 1310 nm and receiver at 1470nm to 1590nm

- SC Connector

Analog Voice Interface
- Two FXS ports with RJ-11

OAM
- Through Web browser, remotely or locally

- One hidden console port (RS-232) for maintenance

Environment
- Operation Temperature: 0°C ~ 45°C

- Operation Humidity: 5% ~ 95% (non-condensing)

- Storage Temperature: -20°C ~ +85°C

- Storage Humidity: 5% ~ 95% (non-condensing)

Power
- 12V DC 2A

- Power consumption in accordance with EU CoC Broadband equipment

Physical Dimensions
- (230 × 155 × 30)

Specifications, software

Routing
- Supports Point-to-Point Protocol and user authentication via PAP, CHAP or MS-CHAP

- Routing Information Protocol (RIP) v1 and v2, static route

- DHCP client, server and relay agent

- NAT / PAT – RFC1631 with support for extensive ALGs

- DNS relay

Firewall
- NAT, DMZ and ALGs

- Stateful Packet Inspection (SPI) with DOS protection - Ping of Death, SYN Flood LAND

- Protection against IP and MAC address spoofing

- UPnP NAT traversal and VPN / IPSec pass-through

Wireless
- Supports 802.1x; WEP; WEP2; WPA; TKIP; AES; 802.11i

- Hidden SSID

- WMM for advanced Quality of Service

- AES in hardware

Voice
- Supports voice CODECs like G.711, G.726, G.729A, G.722, BV16, ILBC, T.38 etc

- G.168 line echo cancellation with pro grammable tail

- Adaptive jitter buffer, packet loss conce alment (PLC), voice activity detection (VAD), comfort noise generation (CNG) and Caller ID

- DTMF tone detection and generation, Fax / Modem detection and pass-through VoIP and Telephony Supplementary Services

- Supports SIP (RFC3261), SDP (RFC2327, RFC3264) as well as both TCP and UDP transport

- Supports User Agent Client (UAC) - User Agent Server (UAS) call, or proxy call routing

- Supports SIP and telephone URL addressing

- Supports in-band DTMF tone sending/ receiving and out-band DTMF signaling with RTP, as per RFC2833

Configuration and Network Management
- SNMP GET, SET and TRAPs for four groups in MIB-II

- Embedded syslog

- UPnP Internet Gateway Device (IGD) compliance

- Management and configuration via Web / HTTP

- Remote management via HTTP, TFTP or TR-069

- Supports TR-069/098

- Supports TR-104

- Supports TR-111 part 1

- Supports TR-140

Note: Not every listed feature will be included in the shipping product. We reserve the right to make changes of technical specifications, housing or design without prior notice.

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