

## **EG500 Ethernet FTTH/LAN Gateway**

*Next generation gigabit residential gateway for FTTH and LAN networks*



EG500 is the next generation gigabit residential gateway for fiber to the home and LAN networks. EG500 features dual mode autosensing WAN (100/1000 Base-T Ethernet and 100/1000 Base-X SFP slot), four Gigabit Ethernet LAN ports, two FXS POTS ports, two USB host 2.0 and 802.11n WiFi with integrated 2x2 antenna design.

### **Key features**

- Auto sensing combo WAN
- Electrical 100/1000 Base-T Ethernet port
- 100/1000 Base-X SFP autosensing port
- Four Gigabit Ethernet LAN
- 802.11n WiFi
- Two USB host 2.0
- Two FXS ports for VoIP
- Remote management via HTTP, TFTP or TR-069
- Supports TR-069, TR-104 management
- Based on Broadcom 6818 CPU
- Flexible choice of WAN port, copper or fiber (SFP)



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## Specifications, hardware

### Local Interface

- Four 10/100/1000 Base-T Ethernet ports
- Integrated 802.11n WLAN Access Point with internal antennas, backward compatible with 802.11b/g

### WAN Interface

- Electrical 10/100/1000 Base-T Ethernet port
- 100/1000 Base-X SFP autosensing port

### 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

- ( 240 × 170 × 47 )

## 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 programmable tail
- Adaptive jitter buffer, packet loss concealment (PLC), voice activity detection (VAD), comfort noise generation (CNG) and Caller ID
- DTMF tone detection and generation; Fax / Modem detection and passthrough VoIP and Telephony Supplementary Services
- Supports SIP (RFC3261), SDP (RFC2327, RFC3264) using TCP or 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
- Firmware upgrade 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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