

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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