

EG101 Wireless VoIP Gateway

The all-in-one gateway for your home

The EG101 is a residential gateway with built in bridge and router functions. EG101 features one 100Base-T WAN interface, four LAN ports, two FXS POTS ports and optional wireless 802.11b/g. The integrated Ethernet switch features automatic crossover correction and speed sensing for easily connecting to user's PCs or LAN environment. Two lines of telephony service are provided using VoIP technology with SIP signaling protocol.



Features

- Ethernet interface supports up to 100 Mbps downstream and 100 Mbps upstream rates
- Integrated four-port Ethernet switch with automatic speed sensing and crossover correction
- 802.11b/g WLAN supports up to 54 Mbps transmission rate (optional)
- Secure transmitting encryption by either 802.1x; WEP; WEP2; WPA; WPA2; TKIP; AES; 802.11i
- Two FXS ports for VoIP using POTS phone set. Optional one FXO port for failsafe lifeline
- Supports voice CODECs like G.711, G.726, G.729AB, BV16, ILBC, T.38 etc.; programmable G.168 echo cancellation, adaptive jitter buffer and packet loss concealment
- Voice activity detection (VAD), comfort noise generation (CNG) and Caller ID
- DTMF tone detection and generation; Fax / Modem detection and pass-through
- Supports SIP signaling protocol and bonus services like call forwarding, call waiting, call transfer, call busy, call return, enquiry service, CLIP/CLIR and three way conference
- Supports Networking protocols such as PPP, NAT, Routing, DHCP server / relay / client
- Configuration and management by Web-browser through the Ethernet interface and remotely through WAN interface
- Firmware upgradeable through HTTP / TFTP
- Supports TR-069 and TR-104



Specifikation, hardware

Local Interface

- Four 10/100 Base-T Ethernet ports in RJ-45 connector, comply with IEEE 802.3u
- Integrated 802.11g WLAN Access Point with external antenna, backward compatible with 802.11b

WAN Interface

- Four 10/100 Base-T Ethernet ports in RJ-45 connector, comply with IEEE 802.3u

Analog Voice Interface

- 2 * FXS ports with RJ-11 connectors for analog phone set connection
- Optional, 1 * FXO port with RJ-11 connector for PSTN connection

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

- DC adapter: Input 120 VAC/60Hz or 230VAC/50Hz; Output 12V DC 1A
- Power consumption: Less than 15 watts

Physical Dimensions

- (W x D x H) t.b.d.

Specifikation, software

Routing

- Supports Point-to-Point Protocol (PPPoE) 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: 16 sessions, 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; WPA2; TKIP; AES; 802.11i
- Hidden SSID
- WMM for advanced Quality of Service
- AES in hardware
- 125 High Speed Mode: Standards-plus performance enhancement delivers best real-world performance as the client card use the same 125 High Speed Mode

Voice

- FXO for failsafe lifeline
- Supports voice CODECs like G.711, G.726, G.729AB, 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 pass-through

VoIP and Telephony Bonus 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
- Bonus services include:
 - Call Forwarding: Unconditional, No Response, On Busy
 - Call Waiting: Force Busy, Pickup and Release Old, Pickup and Put Old on Hold, Switch between two calls
 - Call Transfer, Call Back busy subscriber, Call Back last number called (call return)
 - Enquiry service
 - Three way conference

- Provisioning through TFTP client with configuration profile
- Configuration and Network Management
- SNMP GETs, SETs and TRAPs for four groups in MIB-II
- Embedded syslog; SNTP with DHCP options
- UPnP Internet Gateway Device (IGD) compliance
- Management and configuration via Web / HTTP
- Firmware upgrade using HTTP or TFTP
- Supports TR-069 and with parameters: DeviceInfo, ManagementServer, Time, IPPingDiagnostic, etc
- Supports TR-104

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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