

# VoIP Broadband Gateway

## EV100 Series



EV100 is a highly integrated Voice over IP Broadband gateway. It integrates VoIP ATA/MTA and gateway function together. There are versatile features to enable VoIP and IP sharing at the same time. EV100 supports all popular voice codec and SIP protocol for VoIP and NAT, DHCP server, virtual server and DMZ for gateway. It is the most cost-effective and high quality Voice over IP Broadband Gateway.

EV100 supports easy to use Web GUI and Telnet. It also equips auto firmware upgrade function which will benefit operator from daily service operation.

### Specification / Data Protocol

#### Physical Interfaces

One 10/100 Mbps Fast Ethernet port for WAN  
One 10/100 Mbps Fast Ethernet port for LAN  
One FXS port for phone  
One FXO port for PSTN

#### Standard Compliance

IEEE 802.3 10BASE-T Ethernet  
IEEE 802.3u 100BASE-TX Fast Ethernet

#### VoIP protocols

SIP v1 (RFC2543), v2(RFC3261)

Supported SIP server:

Registrar Server  
Outbound Proxy

#### Network protocols

IP/TCP/UDP/RTP/RTCP  
IP/CMP/ARP/RARP/SNTP  
TFTP Client/DHCP Client/PPPoE Client  
Telnet/HTTP Server  
DNS Client  
NAT /DHCP Server  
Virtual Server/DMZ  
STUN for NAT traversal

#### Voice Codec

G.711: 64k bit/s (PCM)  
G.723.1: 6.3k / 5.3k bit/s  
G.729A: 8k bit/s (CS-ACELP)  
G.729B: adds VAD & CNG to G.729  
GSM: 13.2k bits/s

#### Voice Quality

VAD: Voice activity detection  
CNG: Comfortable noise generator  
AEC: Acoustic echo canceller (G.167)  
LEC: Line echo canceller (G.168)  
Packet Loss Compensation  
Adaptive Jitter Buffer

#### Security

HTTP 1.1 basic/digest authentication for Web setup  
MD5 for SIP authentication (RFC2069/RFC 2617)

#### Quality of Service (QoS)

Class of Service based on IEEE802.1p  
Support Type of Service (TOS) field assignment for SIP and voice



### Feature

- VoIP and Gateway operation simultaneously
- Support SIP v1&v2
- Support popular voice codec G.711, G.723.1, G.729A/B, iLBC and GSM
- Excellent voice quality
- QoS based on layer 2 CoS and layer 3 ToS
- STUN and Outbound Proxy for NAT Traversal
- PSTN Lifeline relay for power failure telephony operation
- Support VoIP to PSTN call
- T.38 fax support
- PPPoE client support for cable/ADSL modem
- NAT/DHCP server for IP sharing
- Virtual server and DMZ support
- User can browse the Internet while talking on the phone simultaneously
- Firmware upgrade through web management
- Support auto firmware upgrade
- Remote / Local configuration & management through Web / Telnet configuration & management

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### Call Function

- Call Hold/Call Waiting ToS field
- Call Transfer/Call Forward
- Caller ID
- 3-way conference

### DTMF Function

- In-Band DTMF Configuration
- Out-of Band DTMF
- SIP Info
- DTMF Detection/Generation

### Dial Method

- Direct IP call without SIP proxy Auto Provision
- Dial number via SIP server
- Dial URL via SIP Server

### Tone

- Ring Tone
- Ring Back Tone
- Dial Tone
- Busy Tone
- User Programming Tone

### Phone Function

- Volume Adjustment
- Speed dial key
- Phone book
- Redial/Flash
- Mute/Speaker Phone
- VoIP to PSTN call (FXO support)

### Ordering Information

Models	Description
EV100F	1 FXS port VoIP gateway with FXO
EV100	1 FXS port VoIP gateway

\*This brochure is a preliminary version for the customer comment and reference. The specification could be modification without prior notice.