



## Essence Analog Gateway

Essence Analog Gateway adopts embedded Linux operating system. Equipped with powerful hardware configuration and controlled by sophisticated software, the system supports multiple functions and provides solutions to a variety of voice communication demands in medium and small enterprise users. It includes PBX functions of Hunting Group, Auto/Manual Attendant, 2nd Stage Dialing, Intercom, Caller ID(FSK/DTMF), Call Forwarding, Call Waiting, Call Holding, Call Restriction, Anonymous Calling, Hotline, Fashion Ring, SMS and other PBX features; FXO functions of PSTN fail-over, Volume/Gain Adjustable, Busy Detection, IP Dialer, as well as voice processing technologies of RTP Redundancy, iLBC/GSM Voice Codec, FD Echo Cancellation. EAG supports SIP and MGCP protocols, and is the ideal gateway for VoIP connection, IP-PBX application and PBX system construction of medium and small enterprises.

### Easy to Operate and Maintain

EAG supports configuration using web based user interface or text commands, and auto upgrade. Through Essence EMS system, the user can remotely change configuration, upgrade software, collect performance and statistics data, download LOG files, and send bug alarms.

### High Interoperability

EAG has passed compatibility and interoperability tests with above twenty most renowned soft switch and gateway suppliers that are currently on the market.



- Up to 24 Simultaneous VoIP calls
- PBX Features: Hunting Group, Intercom, Caller ID, Hot Line, IVR, Call Forwarding, Call Waiting, and etc
- VoIP Functions: Long Distance By-pass, IP-PBX, IP Centrex
- Fashion Ring, Auto Dial, DID, SMS
- FXO Features: Adjustable Volume/Gain, Busy Tone Detection, IP Dialer
- Intelligent Call Routing between IP and PSTN
- PSTN Fail-over
- Advanced DSP Technology: RTP Redundancy, iLBC/GSM, FD Echo Cancellation



## Enabling Excellence Efficiency

ESSENCE TECHNOLOGY SOLUTION(SHANGHAI),INC.  
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### Key Features

Voice Processing	Voice codec : G.711 G.729A G.723.1 GSM iLBC Echo Cancellation : G.168 , Tail Length : 8/16/32ms Dynamic Jitter buffer , Voice Activity Detector(VAD);Comfort Noise Generator (CNG)
Calling Control	Called/calling number Mapping; Line Hunting
Fax Processing	T.30 , T.38 Fax Relay
Gateway Configuration	Web Based User Interface; Polarity Reverse
Remote Provisioning	HTTP / WEB Mode , Remote Configuration , Remote Software Update , Performance Data
Configuration	24 or 48 FXS analog ports , 16 FXO analog ports , 24 FXS&4 FXO analog ports

### Signaling

Off Hook Detection	FXS Loop Start , DDI ( Hong Kong )
VoIP protocol	SIP (RFC3261) , MGCP (RFC2705) , 3GPP TS 24.228 , TS 24.229
Network protocol	PPPoE , DHCP , DNS , NAT/STUN , 802.1p , TFTP , Telnet
DTMF	DTMF Digits Transmit , RFC2833 , INFO (SIP)

### Other Special Feature

FXO Bypass Line	A bypass FXO line is selected during a network failure or power outage
Auto Dial	DTMF mode
Dual Telephone	
Number	Each Line can be configured with two numbers: a PSTN number and an extension number
Support Primary and	
Backup soft switch	The Gateway can be configured and controlled by multiple soft switches
Color Ring-back Tones	The gateway can download and store up to twenty fashion ring-back tones

### Hardware

Maximum User Line	
Length	3000 meters
Ringer Equivalence	
Number	5 for short loop (300 meters),3 for long loop (1500 meters)
Ringling Voltage	60 V RMS
FXS Interface	
connector	RJ-11
Ethernet Interface	
connector	RJ-45 , 10 / 100 Base-T , 10/100 Auto Sensing
System Memory	32MB
Flash Memory	8MB
Central Processor	Motorola PowerPC 852
Digital Signal	
Processor	TI C5509
Input Voltage	110 ~ 240 AC; 50-60 Hz;

Power Consumption	70 Watt(Max)
Dimension(H×W×D)	4.4×44×44 cm
Weight	Net weight:7 kg; gross weight:9 kg

## **Environment Requirement**

Operation Humidity	10% to 95% , non-condensing
Operation Temperature	0 degree to 40 degree Celsius