1.2 Feature List

Basic Features Description

TDM Call Call initiated from TDM to IP, via routing and number manipulation to obtain the called IP address.

IP Call Call initiated from IP to TDM, via routing and number manipulation to obtain the call destination.

Number Manipulation Peels off some digits of a phone number from left/right, or adds a prefix/suffix to a

phone number.

Call Forward Three options available: Unconditional, Busy and No Reply.

Call Waiting

When an FXS channel receives another call while it is in conversation, it will have the newly received call keep waiting. Once the current call is finished, the new one will ring the FXS channel and wait for its answer.

Auto Dial If there is no dialing operation in a designated time period after pickup, the preset auto dial number will be called.

Do Not Disturb Rejects all the incoming calls to the channel.

CID Displays the CallerID.

Echo Cancellation Provides the echo cancellation feature for a call conversation over the FXS/FXO channel.

TDM/VoIP Routing Sets a routing path: from IP to TDM or from TDM to IP.

Fax Provides multiple fax parameters: fax mode, maximum fax rate, fax train mode, error correction mode, etc.

Communication

without Power

Provides composite modules to enable a direct connection of the station which is linked with the FXS port and the trunk which is linked with the FXO port to keep the calls between the FXS port and PSTN uninterrupted during power outage.

Communication

without Network Automatically routes a call to the FXO port in case of network failure or call timeout.

Send Polarity Reversal

Signal

Sends the polarity reversal signal to a corresponding FXS channel when the called party pick-up behavior is detected.

Detect Polarity

Reversal Signal

Turns a corresponding channel into the talking state when the FXO port detects the polarity reversal signal.

Simultaneous Register

to Multiple Servers

Registers the gateway to a master registrar server and a spare registrar server simultaneously.

IMS Network Registers the gateway to a server under IMS network.

SIP Station Supports a SIP terminal to be registered to the gateway and become a SIP station.

Group Ringing Rings all the idle FXS ports in a port group.

Ringing by Turns Rings the FXS ports in a port group by turns according to the *Rule for Ringing by Turns*.

Preemptive Answer When a channel in a port group is ringing, another channel in the same port group

ringing channel to the current channel.

Signaling & Protocol Description

SIP Signaling Supported protocol: SIP V1.0/2.0, RFC3261.

Voice CODEC G.711A, G.711U, G.729A/B, G.723, G.722, AMR, iLBC

DTMF Mode RFC2833, SIP INFO, INBAND

Network Description

Network Protocol Supported protocol: TCP/UDP, HTTP, ARP/RARP, DNS, NTP, TFTP, TELNET,

STUN.

Static IP IP address modification support.

DHCP IP address dynamic allocation support.

PPPoE Virtual dial-up internet access support.

DNS Domain Name Service support.

Security Description

Admin Authentication Supports admin authentication to guarantee the resource and data security.

System Monitor Monitors the running status of the system and the server.

Maintain & Upgrade Description

WEB Configuration Support of configurations through the WEB user interface.

Language English.

Software Upgrade Support of user interface, gateway service, kernel and firmware upgrades based on WEB.

Tracking Test Support of Ping and Tracert tests based on WEB.

SysLog Type Three options available: ERROR, WARNING, INFO.

1.3 Hardware Description

Front



Rear





The table below gives a detailed introduction to the interfaces, buttons and LEDs illustrated

above:

Interface Description

Amount: 2

Type: RJ-45

Bandwidth: 10/100Mbps

Self-Adaptive Bandwidth Supported

LAN

Auto MDI/MDIX Supported

Amount: 8/16/32

Type: RJ-11, RJ-21, RJ45

Maximum Transmission Distance: 1500m

FXS/FXO

Charge Mode: Negative Anti-billing Supported

Amount: 1

Type: RS-232

Baud Rate: 115200bps

Connector: RJ45 to DB-9 Connector

Data Bits: 8 bits

Stop Bit: 1 bit

Parity Unsupported

Console Port

Flow Control Unsupported

Button Description

Power Key Power on/off the SMG analog gateway.

Reset Button Restore the gateway to factory settings.

LED Description

Power Indicator

Indicates the power state. It lights up when the gateway starts up with the power cord well connected

Run Indicator Indicates the running status. For more details, refer to 1.4 Alarm Info.

Alarm Indicator Alarms the device malfunction. For more details, refer to 1.4 Alarm Info.

Link Indicator The green LED on the left of LAN, indicating the network connection status.

ACT Indicator

The orange LED on the right of LAN, whose flashing tells data are being transmitted.

Channel Indicator

FXS and FXO channels are respectively marked by green and red LED after power on.

- 1. When the channel is idle, the LED Lights up;
- 2. When the channel is off-hook, the LED flashes slowly;
- 3. When the channel is ringing, the LED flashes fast.

For other hardware parameters, refer to Appendix A Technical Specifications.

1.4 Alarm Info

The SMG analog gateway is equipped with two indicators denoting the system's running status:

Run Indicator (green LED) and Alarm Indicator (red LED). The table below explains the states and meanings of the two indicators.

LED State Description

Go out System is not yet started.

Run Indicator Light up and flash fast System is starting.

Flash slowly System is normal.

Go out System is normal.

Light up

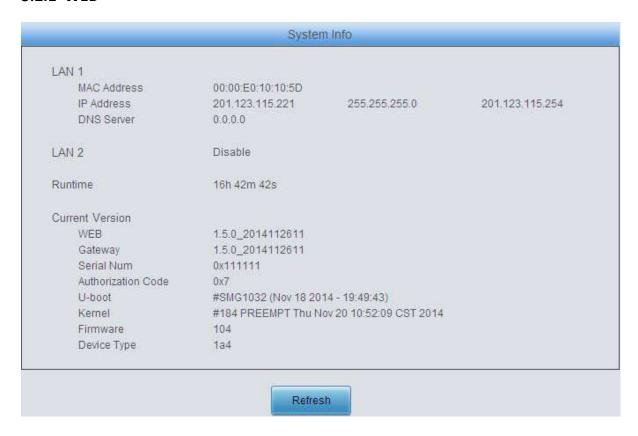
Upon startup: System is normal.

In runtime: System is abnormal.

Alarm Indicator

Flash System is abnormal.

3.2.1 WEB



Channel State.					Charines State								
Channel.	Type	Voltaget/)	State	Direction	CalleriD	CalleeD	Charriel	T)pe	Voltage(v)	State	Direction	CallentD	CateeO
1	-	D	53		-	-	17		0	(3)		-	
2	-	D	53	-	-	-	18		0	63	-	-	-
3	-	0	53	-	-		19	-	0	53	-	-	-
.4	-	0	63	-		-	20	-	0	(ii)	1796	=	255
5	-	- 0	63	-	-	-	21	-	0	523	-	-	-
5	-	- 0	63	-	-	-	22	-00	-0	63	;=::	-	(m)
7	-	0	523	-	-	-	23	FX8	0	•	1-1	-	-
8	- 14	-0	(2)	140	12	1 == 1	24	FXS	.0		145		547
Ð	-	0	(2)		-		25	- 2	0	63		-	-
10	-	0	523	-	-	-	26	-	0	623	-	2	-
11	-	Ď	53	70	- 2		27	-	0	63	-2	2	-
12	-	D	53	-	-	-	28	-		0	-	-	-
12	-	В	63	- 5/	-		29	FXQ	D	63	171	-	· ·
14	-	0	(2)		-	-	39	FXO	0	G3	-	-	575
15	=	B	53	23.5	-	-	-31	-31	0	Q2)	-	-	-
16	-	D	G3	-	-		32	-	0	52		-	Sec.

Obtain CalleelD from	TO THE STATE OF TH
Obtain CalleelD from	"Request" Field
Set CallerID position	Username of From Field
Obtain CallerID from	Username of From Field
Call Transfer Mode	Internal Handling
Call Flash Mode	Platform to Handle SIP II
Hold Music Source	Remote
Two Stage Dialing for SIP Incoming Call	☐ Enable
Maximum Wait Answer Time (s)	60
SIP Station Supported	Enable
Set SIP Identifying	Gateway
Call Abnormal Hangup Detection	☑ Enable
Cycle(s)	0
Server Status Detection	☑ Enable
Cycle(s)	5