

GSM Gateway ETS-8x8G Data Sheet



1.1 Overview

GSM VoIP gateway ETS8x8G is newly designed IP to GSM gateway supporting maximum 8 ports 64SIMs of GSM Voice interface, it can effectively realize the smooth transition between PLMN(GSM) and VoIP network. Compact cost effective design and system architecture of GSM Gateway ETS-8x8G provides customer satisfaction in high quality , performance and system reliance.

Mostly important, GSM Gateway ETS-8x8 features with new functions such as Multi-SIM rotation, Human behavior, BTS rotation,proxy server encryption for anti IP block, ETS bandwidth optimization (SBO), Auto IMEI change and generation, auto activation SIM card etc.

This product uses the state-of-art technology voice compression and Smart QoS of ETS to maintain the maximum voice quality under fast internet line and slow internet line as well, thus It is an ideal gateway for heavy duty VoIP call termination (VoIP to GSM) and Origination (GSM to VoIP), it is fully compatible with leading soft switch and SIP server.

1.2 Main features

Support 8 GSM ports, up to 8 concurrent calls (1 Ports 8 SIM card ,total 64 SIM card)
Support GSM: Quad-band 850/900/1800/1900Mhz
CDMA: 450/ 800/ 1900Mhz optional
3G/UMTS: 850/900/2100Mhz optional
Support Multi SIM card rotation to avoid SIM block
Support Human behavior function
Support SBO (Switch Bandwidth Optimization)
Support BTS rotation and lock
Support encryption for VOS for anti-block of IP port
Support SMS Sending / batch SMS Sending / receiving
Support USSD balance inquiry
Auto activation SIM card and recharge
Support IMEI change , auto IMEI change and generation
Automatically lock/open SIM card/ port according to its balance or alarm
Support Codec: G.711a/u law, G.723.1, G726,G.729AB
Support bandwidth optimization (optional)
Built-in WiFi router, can directly connect to Modem
Built-in 4G module (optional), can use through 4G network if 4G module inserted
If with 4G module and mobile battery /power supply, then it can do call termination with mobility
Sys log output by USB interface for tracking records
User friendly web management interface
HTTP Web support for configuration and upgrade
SIM swapping
HTTP Web support ASR, ACD, PDD, SIM balance inquiry
Convert the number as preset rules /Number translation
Call routing / digit map
CDR management
IVR customized
BCCH management

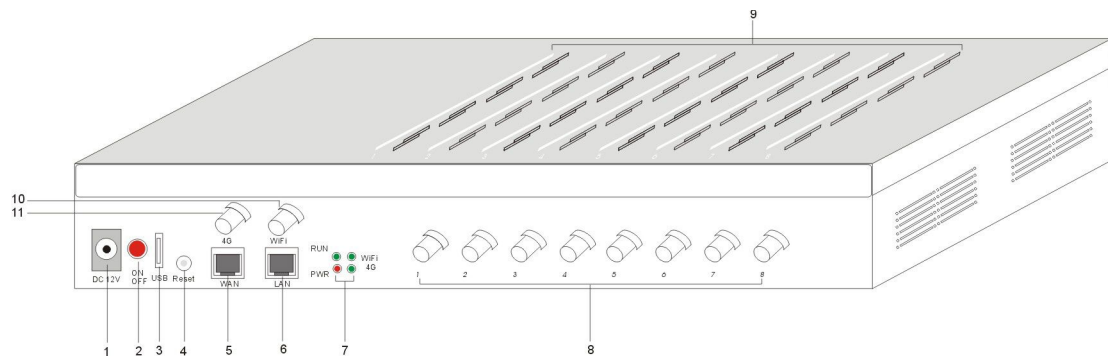
SIM card rotation conditions:

- 1) According to accumulated call duration check (talk time)
- 2) According to accumulated idle&talking check(use time)
- 3) According to accumulated calls check (call counter)
- 4) According to consecutive call failure check(call failure)
- 5) According to consecutive low-duration calls check (Low duration)

Human behavior conditions:

- 1) According to accumulated call duration check (talk time)
- 2) According to accumulated idle&talking check(use time)
- 3) According to accumulated calls check (call counter)

1.3 Interface instruction



S/N	
1	Power port DC 12V
2	Switch ON/OFF
3	USB PORT
4	Reset key
5	WAN Port
6	LAN port
7	LED Indicator for POWER, RUN,WiFi,4G
8	Antenna port (SMA) (8 pieces)
9	SIM card slots (every port 8 ,total 64)
10	WiFi Antenna port (SMA)
11	4G Antenna port (SMA) optional

1.4 Specifications

Interfaces

- Mobile Ports: 8 ports GSM/CDMA channels
- Two(2) 10/100Mbps Ethernet Interface (2xRJ45)
- USB: 1 port
- SIM Card interface: 64 pieces + 4G SIM card 1 piece (Optional)
- 4G interface: 1 channel
- Wifi port: 1

Voice Processing

- Voice Codec: G.711a/u law, G.723.1, G726,G.729AB
- QoS: Diff Serve, T oS, VAD, PLC, CNG

Call Features

- Calling Type: Terminate/Originate calls
- IVR Voice Prompt: Two stage dialing, Customized IVR
- Call handling: One stage dialing, Configurable dial plan, digit map
- DTMF: RFC2833, SIP

Mobile Features

- General Feature: SMS, USSD, IMEI/PIN modify, Call minutes restriction, Carrier select, BCCH, Reversal Polarity Network
- Network Mode: NAT router or switch mode

● Network Protocols: IP,TCP, UDP,TFTP, FTP, RTP, RTCP, ARP, RARP,ICMP Ping, NTP, SNTP, HTTP, DNS, PPPoE, DHCP

● NAT traversal: Static NAT, STUN

Protocol

● Protocol: SIP V2.0 RFC3261

● SIP Characteristics: By port/device registration, Two183 mode

Configuration Management

● Management: TFTP, HTTP, Sys log, CDR

● Web GUI: Configuration, firmware upgrade, call status, CDR ,Configuration backup/restore

Hardware Specifications

● Power Supply:AC100~240V 50/60HZ DC12V/2A External

● Temperature: 0~40 °C (Operation) , -20~80 °C (storage)

● Humidity: 5%~90% RH,

● Power Consumption: 24W

● Product Appearance: steel cabinet

● Product Dimensions: 37(W) x 17.2(D) x 6.5 (H) cm

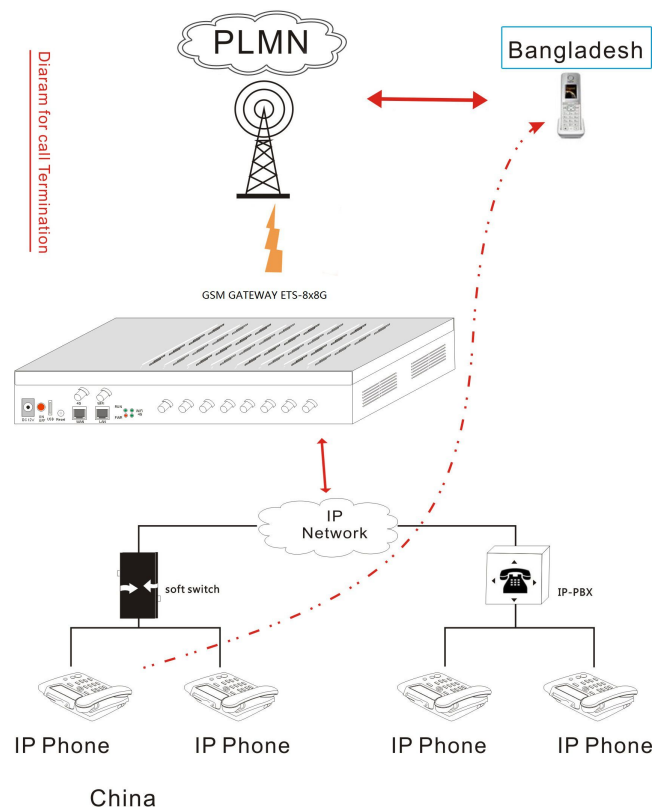
● Product Net weight: 2.65kg

● Carton box Dimensions: 41(W) x 25.5(D) x 15(H) mm

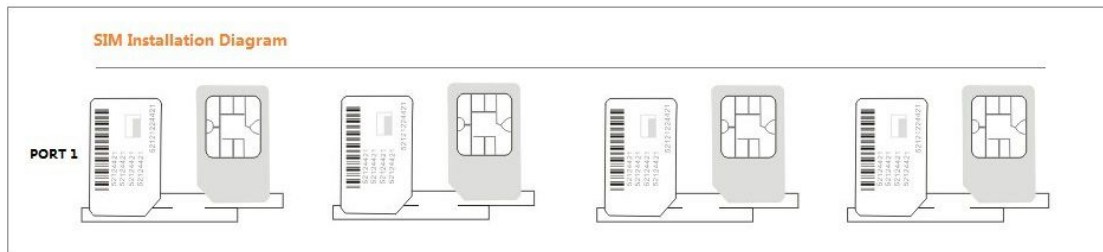
● Gross weight: 3.5kg

1.5 Application

International VoIP call termination



1.6 SIM Card Installation Diagram



1.7 Call traffic examples

ETS Administration Interface

Port Information												
Port	Enable	Slot	HB mode	Balance(min)	Call Number	Signal	ASR	ACD	PDD	Status	Talk Time	Codec
1	on	6	client	106:52	---	T _{all}	41.7%	7:13	6	Idle	--	--
2	on	2	client	78:45	+8801862987702	T _{all}	41.8%	5:35	8	Talking	0:25	G711_A
3	on	1	client	17:17	+8801813010041	T _{all}	43.6%	7:34	6	Talking	0:10	G711_A
4	on	5	client	32:32	01718269393	T _{all}	40.6%	7:18	6	Talking	5:24	G729
5	on	1	client	57:18	01771297863	T _{all}	46.6%	7:41	7	Talking	9:19	G729
6	on	1	client	88:54	01961932164	T _{all}	44.7%	9:19	7	Talking	9:43	G729
7	on	8	client	87:15	01815370561	T _{all}	36.9%	6:45	6	Talking	5:01	G729
8	on	4	client	98:27	---	T _{all}	40.9%	7:22	7	Idle	--	--
9	on	2	client	85:12	01756470114	T _{all}	41.8%	5:59	7	Talking	14:36	G729
10	on	2	client	59:24	01835550850	T _{all}	34.6%	6:45	6	Talking	8:16	G729
11	on	1	client	89:06	01777107582	T _{all}	31.8%	5:40	22	Talking	10:43	G729
12	on	1	client	111:00	---	T _{all}	36.9%	5:45	7	Unregister	--	--
13	on	4	client	79:32	01786095382	T _{all}	41.0%	5:36	8	Talking	4:32	G729
14	on	5	client	69:14	01858817563	T _{all}	44.2%	6:14	6	Talking	9:35	G729
15	on	4	server	424:36	+8801838454883	T _{all}	69.2%	2:18	6	Talking	0:11	G711_A
16	on	3	server	442:19	+8801838959984	T _{all}	72.1%	0:53	6	Talking	0:25	G711_A

System Information		
Product Name:	GSM Gateway ETS-8G	
Software version:	1.0.0.90	
Hardware Version:	V1.0	
Board Version:	1 GSM-M35 1.0.0.76 b2	2 GSM-M35 1.0.0.76 b2
Current Time:	2015-08-29 12:13:28	

Port Information																	
Port-[Slot]	Balance	Sim Card								Operator	Call Number	Signal	PDD	Status	Talk Time	ASR	ACD
		1	2	3	4	5	6	7	8								
1	--	●	●	●	●	●	●	●	●	---	---	T _{all}	0	Booting	--	---	---
2	--	●	●	●	●	●	●	●	●	---	---	T _{all}	0	Booting	--	---	---
3	--	●	●	●	●	●	●	●	●	---	---	T _{all}	0	Booting	--	---	---
4	--	●	●	●	●	●	●	●	●	---	---	T _{all}	0	Booting	--	---	---
5	--	●	●	●	●	●	●	●	●	---	---	T _{all}	0	Booting	--	---	---
6	--	●	●	●	●	●	●	●	●	---	---	T _{all}	0	Booting	--	---	---
7	--	●	●	●	●	●	●	●	●	---	---	T _{all}	0	Booting	--	---	---
8	--	●	●	●	●	●	●	●	●	---	---	T _{all}	0	Booting	--	---	---

Current Used Trunk Information						
Number	Mapping	Type	Enable	Account	Status	

1.8 Photos

