GSM Gateway ETS-32x8G Data Sheet



1.1 Overview

GSM VoIP gateway ETS32x8G is newly designed IP to GSM gateway supporting maximum 32 ports 256SIMs 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-16x8G provides customer satisfaction in high quality , performance and system reliance.

Mostly important, GSM Gateway ETS32x8 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 32 GSM ports, up to 32 concurrent calls (1 Ports 8 SIM card, total 128 SIM card)

Support GSM: Quad-band 850/900/1800/1900Mhz CDMA: 450/ 800/ 1900Mhz optional 3G/UMTS: 850/900/2100Mhz optional

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Support multi-sim card rotation to avoid sim block

Support Human behaviour 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)

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 enquiry

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 Specifications

Interfaces

Mobile Ports: 16 ports GSM/CDMA channels

Two(2) 10/100Mbps Ethernet Interface (2xRJ45)

USB: 1 port **Voice Processing** GSM Gateway ETS-32x8G Data sheet

• 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/5A

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

Humidity: 5%~90% RH,
Power Consumption: 35W

Product Appearance: Rack mountable 1u chassis
 Product Dimensions: 44(W) x 28(D) x 6.8(H) cm

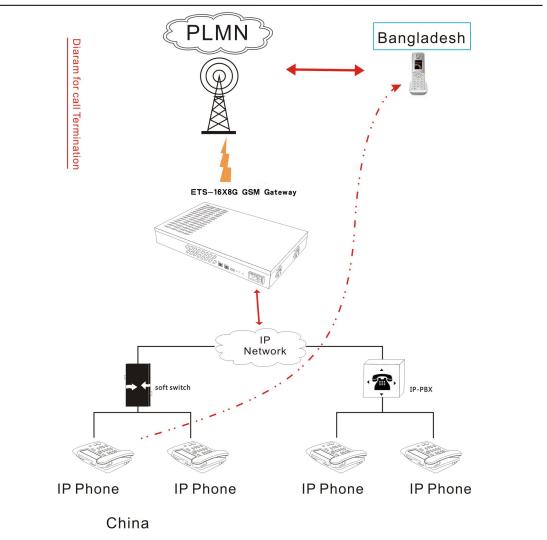
Product Net weight: 5.0kg

Carton box Dimensions: 52(W) x 32(D) x 13(H) mm

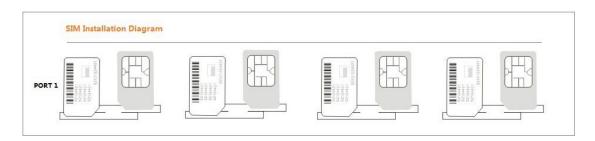
Gross weight: 7.0kg

1.4 Application

International VoIP call termination

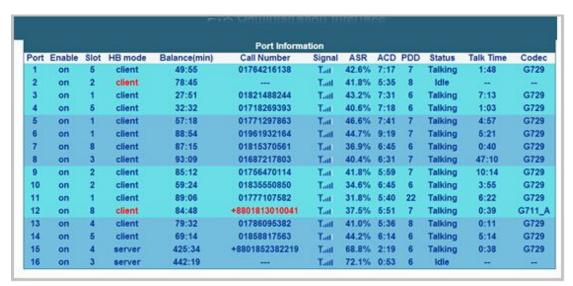


1.5 SIM Card Installation Diagram

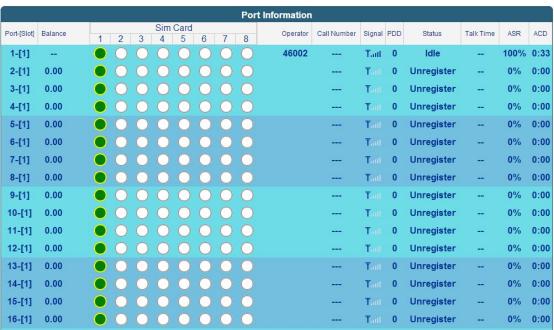


1.6 Call traffic examples

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		Tast	41.7%	7:13	6	Idle		-
2	on	2	client	78:45	+8801862987702	Tait	41.8%	5:35	8	Talking	0:25	G711_A
3	on	1	client	17:17	+8801813010041	Tait	43,6%	7:34	6	Talking	0:10	G711_A
4	on	5	client	32:32	01718269393	Tait	40.6%	7:18	6	Talking	5:24	G729
5	on	1	client	57:18	01771297863	Tail	46.6%	7:41	7	Talking	9:19	G729
6	on	1	client	88:54	01961932164	Tant	44.7%	9:19	7	Talking	9:43	G729
7	on	8	client	87:15	01815370561	Tat	36.9%	6:45	6	Talking	5:01	G729
8	on	4	client	98:27		Tast	40.9%	7:22	7	Idle	-	-
9	on	2	client	85:12	01756470114	Tat	41.8%	5:59	7	Talking	14:36	G729
10	on	2	client	59:24	01835550850	Tait	34.6%	6:45	6	Talking	8:16	G729
11	on	1	client	89:06	01777107582	Tait	31.8%	5:40	22	Talking	10:43	G729
12	on	1	client	111:00		Tait	36.9%	5:45	7	Unregister		-
13	on	4	client	79:32	01786095382	Tant	41.0%	5:36	8	Talking	4:32	G729
14	on	5	client	69:14	01858817563	Tat	44.2%	6:14	6	Talking	9:35	G729
15	on	4	server	424:36	+8801838454883	Tait	69.2%	2:18	6	Talking	0:11	G711_
16	on	3	server	442:19	+8801838959984	Tail	72.1%	0:53	6	Talking	0:25	G711_/



1.7 ETS Administration Interface Diagram



17-[1] 0.00	•••••	 8	Yall	0 Unregister		0%	0:00
18-[1] 0.00	• • • • • • •	 :		0 Unregister		0%	0:00
19-[1] 31.00	• • • • • • •	46002	Tail	0 Idle		0%	0:00
20-[1] 31.00	• • • • • • •	46002	Yall	0 Idle		0%	0:00
21-[1] 0.00	••••••	:	Tail	0 Unregister	-	0%	0:00
22-[1] 0.00	••••••	nac i:	Yaill	0 Unregister		0%	0:00
23-[1] 0.00	••••••		Tail	0 Unregister		0%	0:00
24-[1] 31.00	••••••	46002	Tail	0 Idle		0%	0:00
25-[1] 0.00	• • • • • • •	 :	Tail	0 Unregister		0%	0:00
26-[1] 0.00	• • • • • • •	 .	Yall	0 Unregister		0%	0:00
27-[1] 0.00	• • • • • • •	 :	Tail	0 Unregister		0%	0:00
28-[1] 0.00	• • • • • • •	 :	Yall	0 Unregister		0%	0:00
29-[1] 0.00	••••••	****	Yall	0 Unregister		0%	0:00
30-[1] 0.00	••••••	***	Yail	0 Unregister		0%	0:00
31-[1] 0.00	•••••		Yaill	0 Unregister		0%	0:00
32-[1] 0.00		nac i.	Tail	0 Unregister	110 1	0%	0:00

1.8 Photos

