KNGW-E1

The MTG1000B is a new generation intelligent voice gateway designed for the business needs of enterprises/industries/operators. Based on the design concept of maintainability, manageability and operation, it has the characteristics of carrier-grade, high-density, large-capacity and enhanced functions such as IP voice, IP fax, modem and voice recognition, providing users with flexible and efficient structure. It is a communication network for the future.

The MTG1000B relay gateway supports multiple signaling protocols to implement traditional signaling SS7, PRI, signaling between No. 1 and SIP. It supports multiple voice codecs, provides complete codec capability, provides users with high-quality voice and improves the use efficiency of relay resources. It is widely used in access networks of all sizes, such as small and medium-sized enterprises, call centers, operators and large enterprises.

Main characteristics

• High cost performance, strong business expansion capability, maximum support for 60 concurrent

• Service-oriented architecture, rich service support, support for voice, IP fax and Modem/POS services

• Flexible dialing rules and operations, users can customize the dialing rules and quantity according to different countries and regions to adapt to different work scenarios.

• Multiple coding standards: G.711A/U, G.723.1, G.729A/B, iLBC, AMR

• Good compatibility, support Huawei SoftX3000, ZTE, Cisco and other softswitch platforms

Physical specification

- Quantity of E1/T1 ports

   1/2 E1/T1

- Interface Type

RJ48 (impedance 120 Ω)

- Ethernet interface

FE1: 10/100 Base-T Adaptive Ethernet

FE0: 10/100 Base-T Adaptive Ethernet

- Serial port

1* RS232, 115200bps

Speech characteristics

- Speech coding: G.711a/μ law, G.723.1, G.729A/B, iLBC, AMR

- Mute suppression and detection

- Comfort noise generation

- Voice activity detection

- Echo cancellation (G.168), up to 128ms

- Adaptive dynamic buffering

- Voice, fax gain control

- Fax: T.38 and Pass-through

- Support Modem/POS

- DTMF mode: RFC2833/SIP Info/In-band

- Clear Mode

Software features

Local ringback/color ring pass

Overlapping Number-Receiving

Dialing rules, up to 2000

Relay group by E1 port/slot

IP relay group configuration

Speech codec grouping

White list of calling and called numbers

Blacklist of calling and called numbers

IP access list firewall function

IP relay priority

Voice and signaling encryption (VOS RC4)

Call processing

Flexible routing

PSTN-PSTN, PSTN-IP, IP-IP, IP-PSTN

Redundant route backup/selection

Control call routing by time period

Routing by primary/called number prefix

Support 256 routing rules in different directions

Master called number change

Support 128 number change rules

PSTN

- ISDN PRI

23B+D(T1), 30B+D(E1), NT or TE configurable ITU-T Q.921, ITU-T Q.931, Q.Sig

- Signaling No. 7 / SS7 ITU-T, ANSI, ITU-CHINA

- Signaling No. 1 / R2 MFC

China No. 1 and 22 other variants

MTP1/MTP2/MTP3, TUP/ISUP

- E1 frame format type

DF, CRC-4, CRC_ITU

- T1 frame format type

4-Frame Multi-frame (F4, FT), 2-Frame

Multi-frame (F12, D3/4), Extended Super-frame (F24, ESF), Remote Switch Mode (F72, SLC96)

- Line coding method

E1: NRZ, CMI, AMI, HDB3

T1: NRZ, CMI, AMI, B8ZS

VoIP protocol

- SIP v2.0 (UDP/TCP), RFC3261 SDP, RTP (RFC2833), RFC3262, 3263,3264,3265,3515,2976,3311

- RTP/RTCP, RFC2198, 1889

- SIP-T, RFC3372, RFC3204, RFC3398

- SIP relay working mode: Peer/Access

- SIP/IMS registered account: up to 256

- NAT: Dynamic NAT, Rport

Management and maintenance

Web-based visual configuration and maintenance

Data backup/recovery

PSTN call and release reason statistics

SIP trunk call and release reason statistics

TFTP/Web firmware upgrade

Network capture

SNMP v1/v2/v3

System log: Debug, Info, Error,

Warning , Notice

Calling bill

NTP automatic time synchronization

Support centralized cloud integrated management platform

Physical characteristics

Power supply: 100-240VAC, 50-60 Hz

- Power consumption: 10W

- Operating temperature: 0 ° C ~ 45 ° C Storage temperature: -20 ° C ~80 ° C

- Humidity: 10%-90% without condensation

- Size (W/D/H): 436*300*44.5mm (1U)

- Weight: 2.0kg

- Certification: CE, FCC