HONGKONG KOON TECHNOLOGY LIMITED

KNGW-E1T1

Relay Media Gateway

Model: KNGW-E1T1



Description

The KNGW-E1T1 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 KNGW-E1T1 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 accessnetworks 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



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Physical specification

- Quantity of E1/T1 ports 1/2 E1/T1
- · Interface Type
- RJ48 (impedance 120 2)
- 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.729AB 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

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

• T1frame 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

Model : KNOW E1T

VolP 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

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)

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



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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

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

Size

unit:mm





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