
Overview

eNK200/400

The eNK200/400 series Gateway with Gatekeeper is fully H.323/SIP standard compliant VoIP gateway that provides a total solution for integrating voice-data network and PSTN. By simple installation, this revolutionary compact voice over IP (VoIP) gateway could be configured as a 4 FXS/FXO VoIP Gateway which provides voice connectivity over the IP network and to the Public Switched Telephone Network (PSTN). This Broadband VoIP Gateway is equipped with a four port Ethernet switch and built-in NAT router function that provides Internet access using only one IP address.

Besides, it provides high voice quality and optimized packet voice streaming over managed and public (Internet) IP networks.

The Gateway also built in H.323 Gatekeeper function. The purpose of H.323 Gatekeeper in a VoIP environment is to control the dialing procedures of all VoIP gateways.

The Gatekeeper can secure the whole VoIP service by restrict the registration of the gateways and can also largely simplify the dialing plan settings of the gateways

eNK200/400 gives enterprises and service providers a reliable standalone H.323 compliant gatekeeper for VoIP networks. The Gatekeeper provides the management and administration for all the H.323 VoIP endpoints in your network, including gateways, IP phones and PC clients.

VoIP Gateway Key Features

Easy Installation: The Setup Wizard will show you the install procedure step by step to complete the basic setting in less than a minute.

Smart VoIP call Dialing Book: VoIP call Book could provide any application VoIP call to any type destination (IP address, PSTN or PBX).

Network Address Translation: This device provide build-in NAT router function to map from a group private IP address PCs to a single public IP address. Beside, it also provides virtual server function for build up web server or other internet service.

Smart-QoS Guaranteed: This bandwidth management feature provide good voice quality when user place VoIP call and access internet at the same time. The gateway will start reserve bandwidth for voice traffic automatically when VoIP call proceeds.

NATpass: This feature allow gateway to operate behind any NAT/Firewall device. There is no need to change any configuration of NAT/Firewall like setting virtual server or DMZ. Only register to DGK and everything is done.

Web Management Tools: This device provide backup and restore mechanism to load or save all configuration to a PC and provides TFTP upgrade and system setting by WEB management.

H.323 Gatekeeper Key Features

Great Register Scalability: Gatekeeper can support up to 250 users H.323 Gateway, IP phones or any H.323 endpoints to register at the same time.

Register Security Policy: The Gatekeeper provides security setting for VoIP gateways on your VoIP network. This provides protection for VoIP calls and insures proper endpoint identification.

Pre-Granted Endpoints: This function can let other gateways or endpoints which were not register to this embedded gatekeeper. And the registered VoIP Gateways can make a call to these pre-granted endpoints.

NAT Passthrough applied with eNnovation Gateway: This function supports eNnovation gateway to passthrough any NAT/Firewall device for H.323 call setup procedure.

Syslog: Gatekeeper supports sending syslog information to Syslog Server.

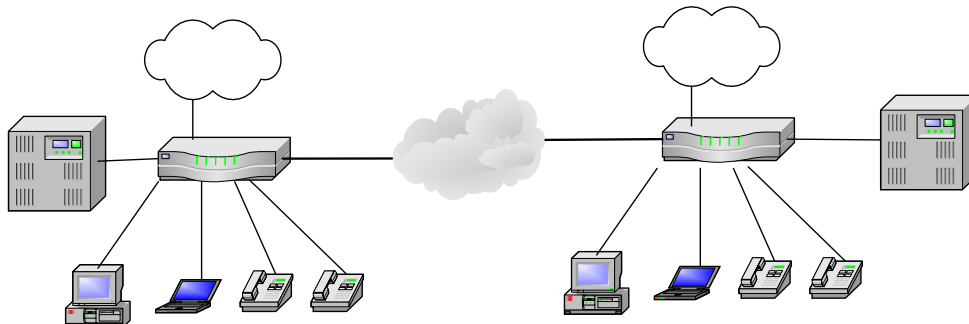
Call Detail Record: Gatekeeper supports CDR to look up VoIP calls, including caller IP, callee IP , call date , call duration and other information.

Top 20 List: Gatekeeper can lists top 20 calls by call duration, caller number, calling number, caller IP or callee IP.

Web-Management: Gatekeeper provides a comprehensive web-based system management and monitoring tool for ease of configuration, monitoring and control.

Application Scenario:

The following application was use in Two Sites as an example:



Specification:

Hardware

- CPU: RISC 133 MHz
- Memory: 16 MB RAM, 2 MB flash

Dimension

- 30 x 5 x15 cm (WxHxT)

Indicators

LAN - Ethernet link 10/100 Mbps
WAN-Ethernet link 10/100 Mbps
Phone (off-hook/ringing)
Line (off-hook/ringing)
Reset button for set to factory setting.

IP Networking

Voice over IP Protocol

H.323 V.4 (RTP, RTCP, H.225, H.235, H.245)

SIP(RFC2543)**Voice compression**

G.723.1 MP-MLQ @ 6.3 Kbps,

ACELP @ 5.3 Kbps,

G. 729A CS-ACELP @ 8 Kbps,

G. 711 PCM @ 64 Kbps u-law/A-law,

Echo cancellation

Improved Echo Cancellation and Echo
Suppression: Meets requirements G.168
(With 32 ms echo tail) specifications

Fax over IP

T.30 and T.38 compliance

Jitter

Adjustable jitter buffer

Meets recommendation in H. 245

DHCP Client and PPPoE compliance**DHCP Server and NAT support****PSTN Signaling**

FXO - Foreign Exchange Office Interface

FXS - Foreign Exchange Station Interface

In-Band Signaling

DTMF Relay