Media Gateway

Model: KNMMG32-8S

KNMMG32-8S series IP Voice (Media) Gateway is a high-performance VoIP gateway that supports a wide range of features and capabilities.

Model	Description
KNMMG32-8S	Supports 8 FXS ports.
KNMMG32-8P	Supports 8 FXO ports.

Key Features

Supports SIP 2.0:
Complies with the latest SIP standards, making it interoperable with a wide range of VOIP equipment.

Wide range of voice codecs:
Supports a variety of voice codecs, including G,711A/u,G,7231 high/low, and G,729, This ensures that calls are clear and reliable, even over long distances.

Echo cancellation:
Features echo cancellation to reduce echo and improve call quality.

Real-Time Status Display:
Supports point to point calling for direct communication between two endpoints.

DTFM mode:
Supports DTFM mode for caller ID and other features.

Fax:
Supports fax over IP for sending and receiving faxes.

SIP application:
Supports a variety of SIP applications, such as call transfer, call waiting, and caller ID.

WAN DHCP Client:
Can obtain an IP address from a DHCP server.

SNTP Client:
Can synchronize its time with an SNTP server.

Website configuration:
Can be configured and managed via a web browser.

1. PSTN Loop Start & Caller ID Compliance

The FXO Media Gateway fully supports PSTN Loop Start analogue trunk interfaces for connection to the Public Switched Telephone Network (PSTN). It supports DTMF and FSK - based Caller ID transmission, compliant with common PSTN signalling standards adopted by Fixed Telecommunications Network Services (FTNS) operators in Hong Kong. Caller Number Display (CND) information is transparently delivered to the IP-PBX / PABX system via SIP signalling.

2. Emergency PSTN Fallback / Failover Capability

The FXO Media Gateway supports emergency PSTN fallback operation. In the event of IP network failure, IP-PBX failure, or system abnormal condition, pre-configured extensions or routes can be automatically switched to analogue PSTN lines via FXO interfaces, ensuring continuity of basic external call services. This design satisfies government PABX requirements for emergency communic - ation resilience.

3. Compatibility with FTNS Operators

The FXO Media Gateway is designed for integration with Fixed Telecommunications Network Services (FTNS) operators. It supports standard PSTN electrical characteristics, signalling methods, and interface requirements for connection to operator - provided analogue exchange lines. Technical information, interface parameters, and on-site support can be provided to facilitate PSTN line application, commissioning, and acceptance testing with FTNS operators.

4. Compliance with EMSD / ESG20 PABX System Architecture

The FXO Media Gateway is suitable for deployment as part of a Government PABX system architecture in accordance with General Specification for Private Automatic Branch Exchange. It provides PSTN access, emergency backup routing, and interoperability with SIP-based PABX systems, supporting the overall reliability, availability, and operational requirements stipulated in government PABX projects.

Advanced Functions

Connect to a variety of VOIP providers:	Can be used to connect to a variety of VoIP providers, giving you the flexibility to choose the best one for your needs.
Integrate with existing phone：	Can be integrated with existing phone systems, making it a seamless transition to VOIP.

Benefits

- Scalability:

  Is a scalable solution that can expand with the needs of your business.
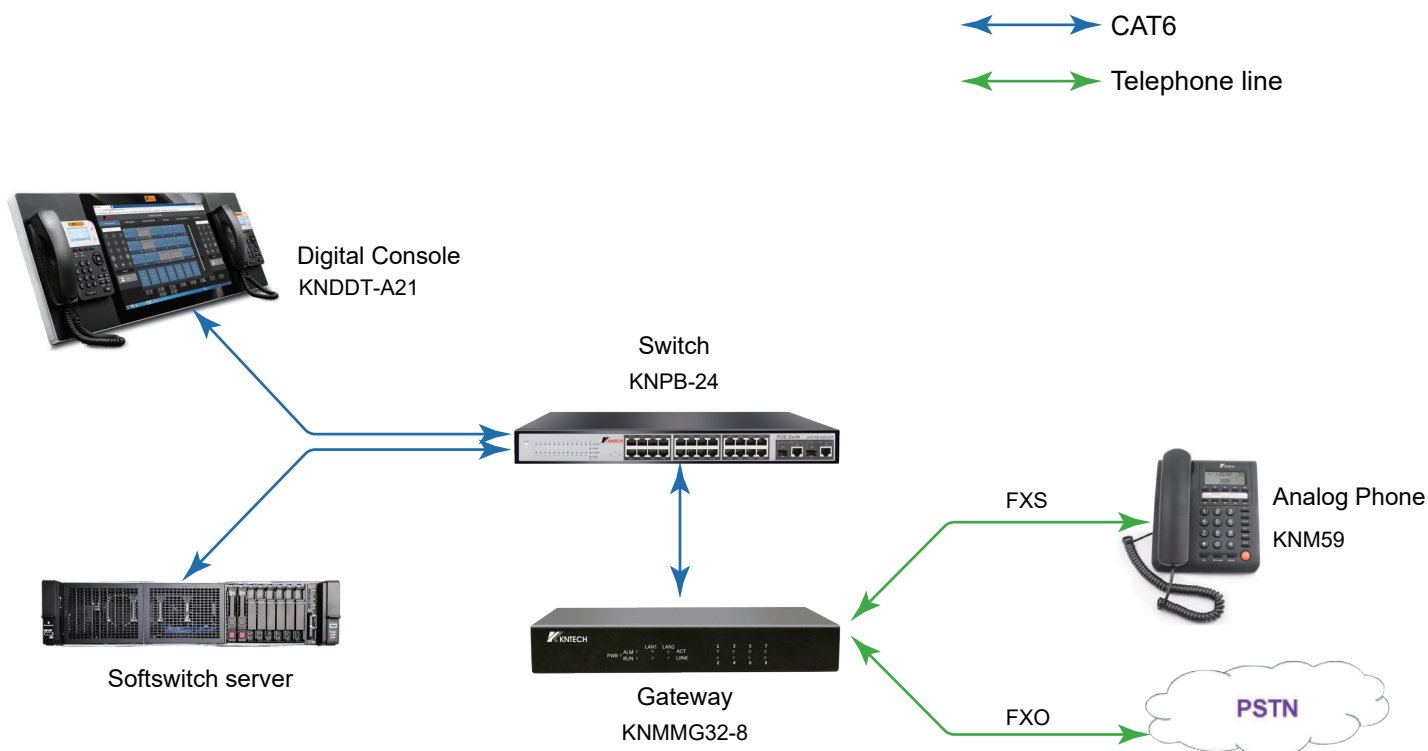
- Flexibility:

  Is a flexible solution that can be adapted to meet the needs of businesses of all sizes.

- Cost savings:

  Our Media Gateway can help you save money on your telecommunications costs by eliminating the need for a traditional PBX and by reducing long distance calling costs.

- Improved call quality:

  Our Media Gateway can provide improved call quality compared to traditional phone systems by using the latest voice codecs and echo cancellation technology.

CAT6

Telephone line

Digital Console
KNDDT-A21

Switch
KNPB-24

FXS

Analog Phone
KNM59

Softswitch server

Gateway
KNMMG32-8

FXO

PSTN

Specification

Installation	FXO/FXS/E&M,Maximum Port 8
LAN	10/100BASE RJ45*2
Speech coding	G,711a/μlaw, G,723,1, G,729A/B
Fax	T,38/Pass-through
VoIP protocol	SIP V2,0 (PFC3261,3262,3264) SDP, PTP/PTCP,DHCP,TFTP/HTTP/HTTPS
DTMF Mode	Signal/PFC2833/INBAND
Power	100-240VAC, 50-60 Hz 24W
Humidity	10% -90% no condensation
Operating temperature	0℃～50℃
Size	24.2cm * 15.12cm * 3.72cm
Index of protection	IP3X
Applicable Standards	EN 62368-1:2014/A11:2017/EN 55032:2015/A11:2020 EN 55035:2017/A11:2020

Size display

24.2cm
3.72cm
24.2cm
15.12cm
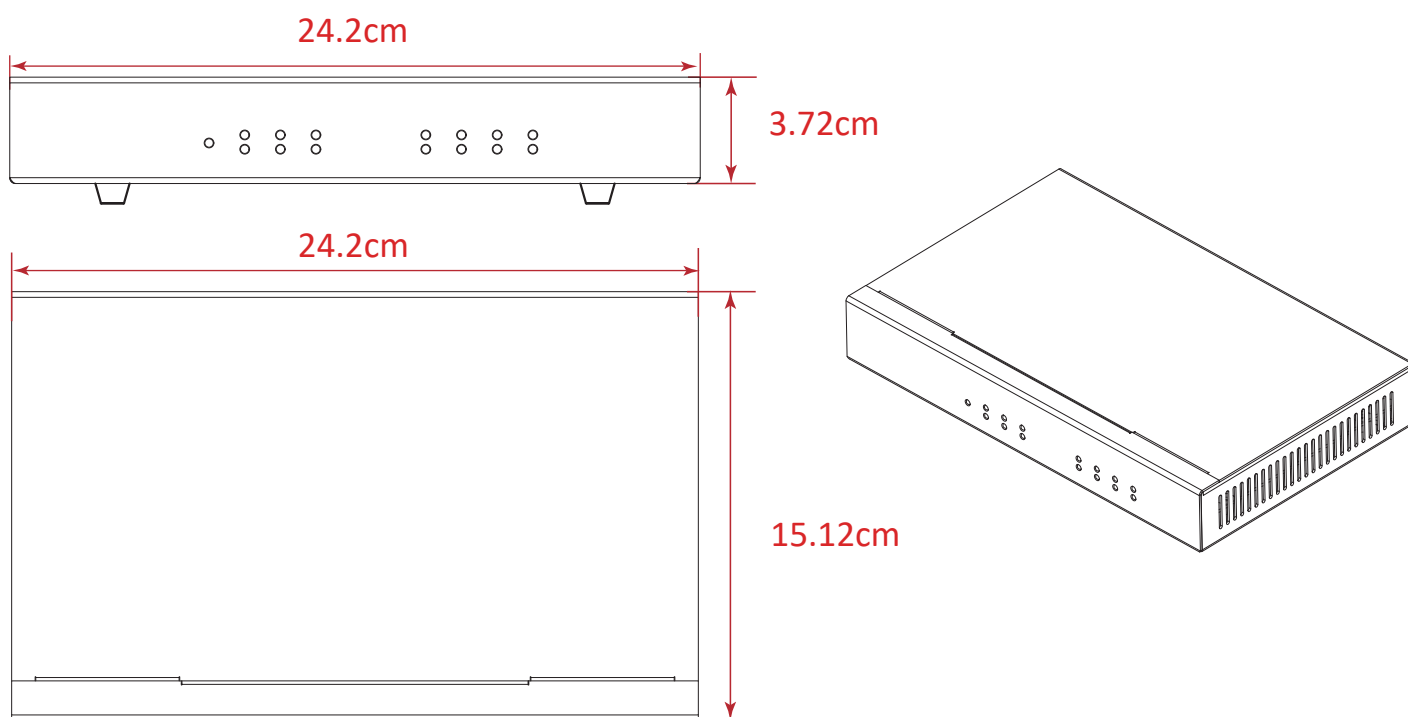
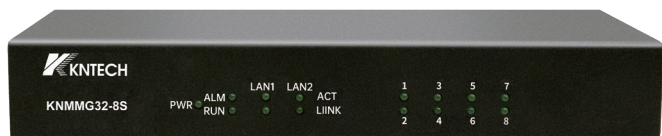## Photo Album

● Single power supply
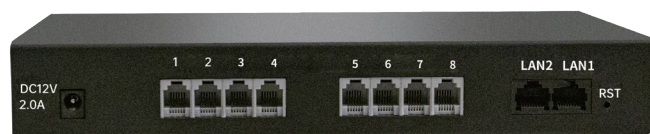
Powerhouse | Versatile | User-friendly

Seamless Integration
Unlimited Possibility