

Media Gateway Model: KNMMG-128

Overview

The KNMMG-128 FXS analog gateway is multi-functional voice gateway that provides seamless connectivity with analog phones, fax machine or analog PBXs to VoIP gateway. The overall frame of KNMMG-128 is compact and structured, supporting RJ45 interface standards and up to 128 FXS voice interfaces via user boards plugging at a size of 1U. In addition, KNMMG-128 provides high-performance hardware solution with good voice/fax processing capability. It is able to provide efficient and high-quality IP voice services for service provider, enterprises, community residents, and corporate telephone systems.

KNMMG-128 supports standard SIP and RTP protocols and is compatible with multiple well-known platforms, for example, compatible with BroadSoft. It also works as extensions with various IPPBX products based on Asterisk and FreeSWITCH.



Model	Description
KNMMG-128	Supports 128 FXS ports.
KNMMG-128-Pro	Supports 128 FXS ports. Dual AC power supply ports.

Key Features

- High density gateway, 128 FXS ports in 1U size via user boards plugging
- Support IPv4
- 5 km Line Length(MAX)
- Support SNMP
- Multiple codecs: G.711A/U, G.723.1, G.729A/B and iLBC
- Support Asterisk and FreeSWITCH platforms, and compatible with BroadSoft

Physical Interfaces

- **Hardware**
Single-chip board
- Network interfaces:
2*10/100 Base-T
Console:1*RS232,115200bps

Call Features

- Digit map
- CDR
- Action URL
- Blind Transfer
- Attend Transfer
- Call Forward on Busy
- Call Forward on No Reply
- Ringing Group, Hotline
- 3-way Conference
- Early Media/Early Answer
- Abbreviated Dialing
- Access and Peer Mode
- Unconditional Call Forward
- SIP registration to different servers
- Flexible Call Routing Policy
- Caller/Called Number Manipulation

Voice & FAX

- Recording
- T.38
- Silence Suppression
- Bandwidth Optimization
- Comfort Noise Generation(CNG)
- Voice Activity Detection(VAD)
- Packet Loss Concealment
- Adaptive (Dynamic) Jitter Buffer
- Programmable Gain Control
- G.711A/U law, G.723.1,G.729A/B, G.726, iLBC,AMR
- DTMF mode: Signal/RFC2833/INBAND
- Echo Cancellation(G.168), with up to 128ms

Maintenance

- Ping/Tracer Test
- Network Capture
- Outward Test(GR909)
- SNMP
- NTP/Daylight Saving Time
- IVR local Maintenance
- Cloud-based Management (NMS)
- Syslog: Debug, Info, Error, Warning, Notice
- Configuration Backup/Restore
- Firmware Upgrade via HTTP/HTTPS/TFTP/FTP/HTTP

Physical Features

- Power supply: 100-240VAC,50 / 60Hz
- Single power supply and dual power supply for option
- Operating Temperature: 0°C ~ 45°C
- Storage Temperature: -20°C ~ 80°C
- Humidity: 10% - 90% Non-Condensing
- Dimensions(W/D/H): 43.6cm * 60cm * 4.5cm(1U)
- Consumption (Idle / With full channel used)
350W

FXS

- Connector: RJ45
- Max Line Length: 5 km
- Dial Mode: DTMF
- Programmable Call Progress Tone
- Caller ID:FSK CLI Presentation

Security

- QoS, TLS, SRTP
- Web ACL/SSH ACL
- Certification Management
- Service Network Port:
Main/Backup Mode
- Signaling/Voice Encryption

VoIP

Protocols:

- SIP v2.0(UDP/TCP),RFC3261
- SDP(RFC2327),RTP(RFC2833),RFC3262, RFC3263,RFC3264,RFC3265,RFC3515, RFC2976,RFC3311
- RTP/RTCP,RFC2198,RFC1889
- IPv4
- Outbound Proxy
- RFC2806 TEL URI
- VLAN 802.1P/802.1Q
- RFC4028 Session Timer
- DNS SRV/A Query/NATPR Query

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:**

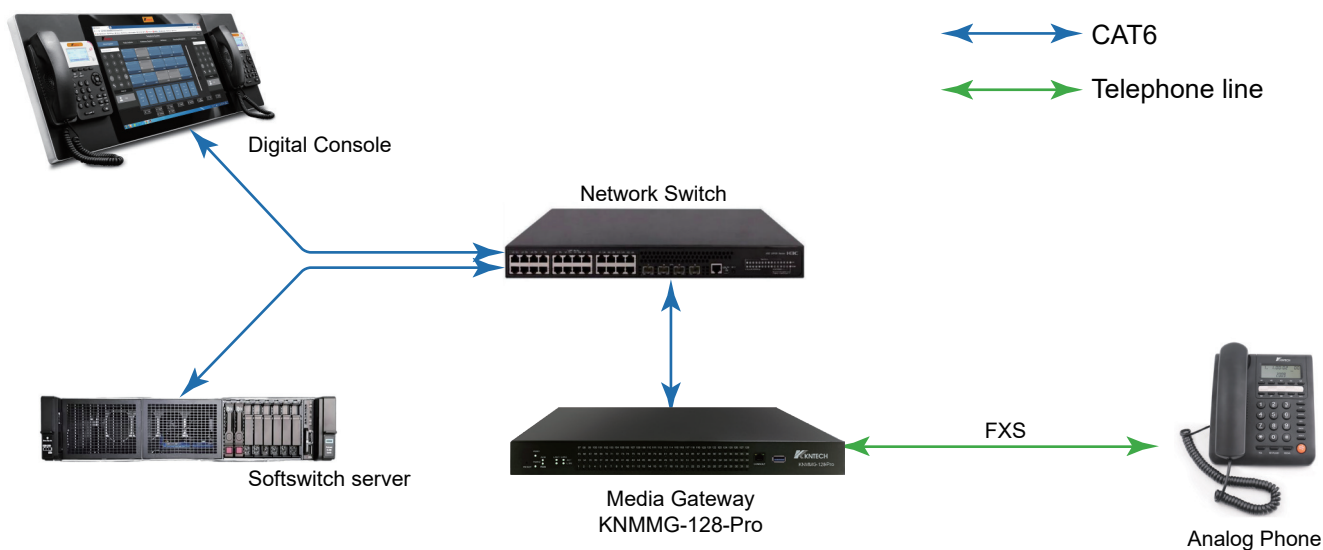
Is a flexible solution that can be adapted to meet the needs of businesses of all sizes.

- **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.



Specification

Total FXS Ports	128 Lines
Physical Interface	32 x RJ45(ISO / IEC 8877)
Port Density	4 FXS Channels per RJ45 Connector
Wiring Standard	Integrated Multi-Pair Mapping
LAN	10 / 100BASE RJ45*2
Multiple codecs	G.711A / U,G.723.1,G.729A / B and iLBC
Fax	T.38
VoIP protocol	SIP v2.0(UDP/TCP), RFC3261, SDP(RFC2327), RTP(RFC2833), RFC3262, RFC3263, RFC3264, RFC3265, RFC3515, RFC2976, RFC3311, RTP / RTCP, RFC2198, RFC1889.
DTMF Mode	Signal / PFC2833 / INBAND
Power	100-240VAC, 50-60 Hz 350W
Humidity	10% - 90% no condensation
Operating temperature	0°C ~ 45°C
Storage Temperature	-20°C ~ 80°C
Size	43.6cm * 60cm * 4.5cm(1U)
Index of protection	IP3X
Applicable Standards	EN 62368-1:2014 / A11:2017 / EN 55032:2015 / A11:2020 EN 55035:2017 / A11:2020

Size display

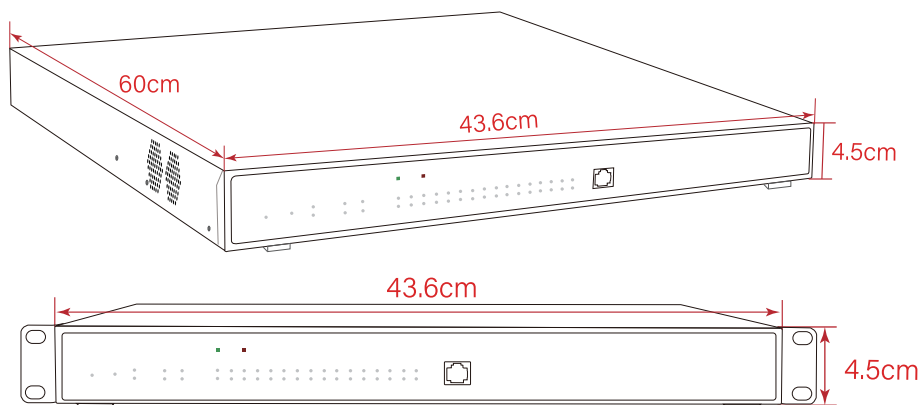


Photo Album

- Single power supply Model:KNMMG-128



- Dual power supply Model:KNMMG-128-Pro



Powerhouse | Versatile | User-friendly

*Seamless Integration
Unlimited Possibility*

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