

## Overview

The CoreIP UMGW-48/72/96/120/144S FXS VoIP Gateway converts analog PSTN messages into a format suitable for transmission over standard IP networks. The device offers 48/72/96/120/144 FXS ports, fax over IP and flexible dial plans and it is ideally suited for medium and large businesses, call centers and multi-location environments that need VoIP services. is Fit to Diverse Applications and Used to connect IP telephones to a legacy PBX, integrate network-hosted applications with the PBX, extend the PBX to branch offices, and integrate various voice and call processing capabilities in an enterprise LAN or WAN environment.

The CoreIP UMGW- 48/72/96/120/144S FXS VoIP Gateway Route calls from the switched network to a VoIP destination on the IP network or conversely, and support the following call routing options: TDM to IP or IP to TDM, with IP load balancing, IP fault tolerance.



**CoreIP UMGW- 48/72/96/120/144**

## Key Features and Benefits

### ***Flexible configuration for any network***

Compliant with diverse networks support various multimedia processing capability (conferencing, fax, compression and SuPerForm<sup>TM</sup> echo cancellation for voice enhancement and an array of Protocols.

### ***Flexibility and adaptability:***

This offers enhanced flexibility and adaptability, thanks to its modular and open architecture. Users can tailor the system to their specific needs, adding or removing modules as necessary.

### ***Sophisticated communications:***

The UMGW-48/72/96/120/144 is designed to cater to the requirements of sophisticated communications. With its hybrid architecture and support for standard protocols, it can handle complex communication scenarios, such as interconnecting different types of networks, bridging between TDM and VoIP, and supporting various signaling protocols.

### ***Several Media Resources***

Support high-capacity voice playback and Codecs, conferencing, faxing; Support T.38/T.30; optimized for IP-PBX, IVR and ACD applications, with external IVR server or GUI management.

## Technical Specification:

### Network Interface

- 2 \*Ethernet Gig port
- 1 \*Console
- 1\*SFP Port

### VoIP Resources

#### RTP Protocol

- Compliant with RTP/RTCP protocol (RFC3551, RFC3552);
- Coding/Decoding: G.711a-law/G.711μ-law/G.729A;
- Self-adaptive echo cancellation (voice enhancement);
- RTP DTMF loading (RFC2833)
- Support NAT/Firewall monitoring and tunnelling;

### Signaling

#### Voice Processing

- CODECs: support G.711a/μ-law, G.729A/B, G.722, G.723, iLBC etc;
- Voice file format: support standard WAV format file and any non-format file;
- Support conversion among various (de)coding formats;
- Support real-time file replay from RAM and server;
- Support real-time recording to RAM and server (Dynamic Storage);
- Support DTMF and FSK transmission/reception;
- Support (standard/self-defined) tone transmission and detection;
- Support R2 transmission and reception;
- Support simultaneous recording/replay; Compliant with G.168 echo cancellation, with up to 48ms tail length;
- Support AGC/ALS;
- Support Answer Machine Detection;
- Support SIP-based FAX T.38 standard
- Support voice call recording (on-demand or permanent);
- All voice channels could be converted to conferencing channels;
- Two voice channels could be converted to a fax session on demand;

### High Availability

- Multi SIP Server Support
- Support Self survival Mode
- DNS based Redundancy and failover
- A dedicated processor is not required for the self-survivability of the FXS Gateway, as this is a built-in feature of the gateway itself.
- Up to 25 remote shelves through a distributed survivability architecture

### SIP Protocol

- Supported SIP standards:
- IETF RFC 3261 (SIP: Session Initiation Protocol);
- IETF RFC 2327 (SDP-Session Description Protocol);
- IETF RFC 3550 and 3551 (RTP/RTCP);
- IETF RFC 2833 (DTMF);

### Call & Routing

- T.38/Pass-through, up to 14.4kbps
- Managed Port Groups and IP Trunks
- Primary and Secondary SIP Account
- Inbound/Outbound Routing, Digit maps
- up to 500 Dialling Plan Routing Rules
- TDM to IP or IP to TDM.

### SIP Protocol

- Support signaling transmitting over TCP/UDP;
- Support call holding;
- Support Digest Authentication;
- Intelligent URL Scheme analysis algorithm;
- Support INVITE/REINVITE in calling processing;
- Support VIA rPort setting (for NAT/Firewall tunnelling);
- Support REFER call forwarding;
- Allow DTMF : in-band/SIP info/ RFC2833;
- Support REGISTER messaging and authentication;
- Inner multiple-threads mechanism;
- Support SIP server;
- Support UDP "pulse-holding" mechanism;
- Support INFO messaging;

### Physical Characteristics

- Interface: 48/72/96/120/144 Port FXS
- Form factor:- 1U/2U
- Installation recommendation: 19-inches rack mountable

### Power:

- Dual Power Supply AC: 100-240V
- Power Supply DC: -45 to -50VDC (Optional)

### Environment Requirement

- Operating temperature: 0°C ~ 40°C;
- Relative humidity: 10% ~ 90%;

**Note: Model/capacity may be changed to equivalent or higher.....**



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