

About

CoreIP 128S/H VoIP Gateway adopts the latest modular architecture with built-in server, and opens a new milestone to maximize VOIP and TDM network's value for Service Providers and application developers. One of major advantage to reduce time to market and introduce innovative applications more efficiently and effectively. Tailored to satisfy diverse customers' needs, CoreIP UMGW with its open and standardized format, enables users to develop a range of applications.

The hybrid architecture of CoreIP UMGW allows for standard protocols between different network components and ensures high independence and interoperability, which better caters to sophisticated communications. Also, in the Mobile Internet Era brings about efficiency and unparalleled cost advantages for developers by optimizing R&D and integrating an array of data, voice, video and other applications.



CoreIP UMGW-128S/H

Key Features and Benefits

Flexible configuration for any network

Compliant with diverse networks (FXO, FXS): support various multimedia processing capability (conferencing, fax, compression and SuPerForm™ echo cancellation for voice enhancement and an array of Protocols.

Compliant with any IP-Based applications

With optional inbuilt industrial server, CoreIP UMGW series are compliant with any IP-based applications; it also even supports any category of third party software, including UC, IP-PBX, Contact Center and more. In legacy PSTN network, CoreIP UMGW could converge applications via internal modules.

Low to High Scalability

Modular architecture ensures flexibility and expandability from low density and high density. Modular design allows for easy configurations, system upgrading or general maintenance

Multimedia Convergence

Adopt 100M-Ethernet switching chipset, CoreIP UMGW media stream exchanges in IP packets, and access to soft switching system via Media Gateway Controller, ensuring high-level applications are streamlined

Diverse 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 EXT IVR server or GUI management.

Carrier-Grade Reliability

Special power system with standby redundancy; advanced cooling system to reassure long-standing robustness ; special air cleaner to protect against dust accumulation inside chassis; Inside temperature control and alert system; No need to change wiring when changing functional modules.

Functional module available:

- UMGW-160/16S: 16*FXO or 16*FXS
- Notice: a total of 8 slots for all these modules Optional inbuilt server to run applications:
- Option 1: UMGW-CPU01
- Intel 1037U Dual Core, 1.7G, DDR1333, 4G RAM(Upgradeable to 8G) ;
- Option 2: UMGW-CPU04
- Intel i5 3210U Dual Core, 2.5~3.1G, DDR1600, RAID, 4G RAM (Upgradeable to 8G)

Multimedia & Signaling

Voice Processing

- CODECs: support A-law, μ -law, PCM8, PCM16, IAM-ADPCM, VOX, MP3, GSM, 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 Barge-in function;
- Support simultaneous recording/replay; Compliant with G.168 echo cancellation, with up to 128ms tail length;
- Support AGC/ALS;
- Support Answer Machine Detection;
- Support voice call recording (on-demand or permanent);
- Support full-duplex recording and replay;
- All voice channels could be converted to conferencing channels;
- Two voice channels could be converted to a fax session on demand;

Conference/Fax resource

- Support distributed conferencing mode, with conferencing resource in each voice channel;
- Fully support SIP-based Fax T.38 standard;
- Support V29/V27/V17 standards, with faxing rate up to 33.6Kbps (automatically slowing down);
- Support ECM (Fax/Error Correction Mode) for reception/transmission (optional for EXM/non-ECM mode);
- Support TIFF files input in MH/MR/MMR format and transmission/reception in MH, MR format;

VoIP Resources

RTP Protocol

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

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);

SIP Protocol Stacks

- Support signaling transmitting over 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 tunneling);
- Support REFER call forwarding;
- Allow DTMF tone transmission/detection in three modes: inner-band/SIPINFO/out-of-band (RFC2833);
- Support REGISTER messaging and authentication;
- Inner multiple-threads mechanism; Support SIP server;
- Support UDP "pulse-holding" mechanism;
- Support INFO messaging;

Network Interface

- Analog interface: Optional functional modules for FXO interface, FXS interface or high-impedance logging;
- 2 *TCP/IP 1,00M Ethernet (RJ-45);
- 2 *LAN Ethernet (RJ-45);
- 1 *Console
- 1 *USB

Development Environment

- Windows OS:
 - Windows2000/XP/2003/Vista/NT;
- Linux OS:
 - Including RH7.2/RH9.0/AS4/FC4/SUSE10;

Physical Characteristics

- Dimensions: 2U form factor:
 - 88mm (H) x 472mm (W) x 440mm (L)
- Net Weight:
 - 8Kg (different for the number of optional modules)
- Installation recommendation:
 - mounted on standard 19-inches rack;

Power Requirement

- AC: 100-240V AC
- Power consumption:
 - different for configuration, less than 350Watt;

Environment Requirement

- Operating temperature:
 - 0°C ~ 40°C;
- Relative humidity:
 - 10% ~ 85%;

About CoreIP

To introduce ourselves we would like to call us a Technology company. A company that helps global organizations implement optimized/customised Telecom/IT solutions with simplicity, which is an absolute must for any organization for its successful growth. Our scope of expertise includes Unified Communications, Security solutions, Networking solutions and a lot Core IP's vision of the digital future is driven by the needs and aspirations of our customers and consumers around the country who are in need of latest technology every day. We share their dream to live a fuller life by providing ways of working smarter and enjoying the rewards of technological advanced solutions. As we move forward together with our customers into the uncharted future of the 21st century with the prospect of future technologies and systems yet to be thought of, Core IP's standards are still firmly grounded in the philosophy of company's directors. CoreIP promises to deliver best-in-class products and services, enhanced by extensive in house research and development capabilities.

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