

UNIWAY2300

Hybrid Gateway

In the hybrid VoIP and TDM era with diverse and growing unified communication needs, the UNIWAY VoIP Gateway uses the latest modular architecture with a built-in server. This innovation reduces time to market and efficiently introduces new applications. Its open, standardized format allows users to develop various applications, ensuring high independence and interoperability. UNIWAY's hybrid architecture supports standard protocols between network components, meeting complex communication needs. Additionally, in the Mobile Internet Era, UNIWAY optimizes R&D and integrates data, voice, and video applications, offering efficiency and cost advantages for developers.



Key Features and Benefits

- **Flexible Configuration:**

Supports diverse networks (FXO, FXS, T1, E1) with multimedia processing capabilities like conferencing, fax, compression, and echo cancellation. Compatible with protocols such as SS7, SIGTRAN, ISDN PRI, CAS, R1, R2, and Wireless.

- **IP-Based Compatibility:**

With an optional built-in industrial server, UNIWAY supports all IP-based applications, including UC, IP-PBX, and Contact Centers. It also integrates with legacy PSTN networks via internal modules.

- **Scalability:**

Modular design allows for easy configuration, system upgrades, and maintenance, supporting both low and high-density setups.

- **Multimedia Convergence:**

Utilizes a Gigabit Ethernet switching chipset for media stream exchanges in IP packets, ensuring streamlined high-level applications through a Media Gateway Controller.

- **Diverse Media Resources:**

Supports high-capacity voice playback, various Codecs, conferencing, and faxing (T.38/T.30). Optimized for IP-PBX, IVR, and ACD applications with extended IVR server or GUI management.

- **Carrier-Grade Reliability:**

Features a special power system with standby redundancy, advanced cooling, dust protection, and internal temperature control and alert systems, ensuring robust long-term performance. No need to change wiring when replacing functional modules.

Technical Specification:

Functional Modules (Support 8 Slots max):

Digital Boards:	UMG3000-B1;	Raido Board:	UMG1000-D4EM
	UMG3000-B2;	Audio Board:	UMG1000-D4AU
	UMG3000-B4	Video Board:	UMG-VG100
Analog Boards:	UMG1000-D16S;	SBC Board:	UMG-SBC60
	UMG1000-D8S8O;	Magnetic Phone Board:	UMG-1000-D8MAG
	UMG1000-D16O;		
	UMGX1000-D32SP;	UMG-CPU03 (2 Slots)	Intel Core i7-3632QM @2.20GHz, 4 cores, 16GB RAM
	UMGX1000-D32O	UMG-CPU04 (2 Slots)	Intel Core i5-3210M @2.50GHz, 2 cores, 8GB RAM

Network Interface:

Main Control board: 6 x RJ45 GE ports, 1 x Gigabit SFP port (mutually exclusive with the adjacent RJ45 Gigabit port, only one can be enabled at a time), and 1 x RJ45 100Mbps port (up to 2 main control boards can be installed).

Multimedia & Signaling:

Voice Processing:	CODECs: A-law, μ -law, PCM8, PCM16, GSM, G.729A/B, G.722, G.723, iLBC
	Supports WAV and various file formats
	Real-time recording/replay, DTMF/FSK transmission
	Echo cancellation (up to 128ms), AGC/ALS, Answer Machine Detection
	Full-duplex recording/replay, voice call recording (on-demand/permanent)
Signaling Protocols:	Conversion of voice channels to conferencing or fax sessions
	E1/T1: Supports R1, R2, CAS, SIGTRAN, ISDN PRI
	Signaling redundancy, link management, call distribution/transfer
	Multiple signaling point-codes, real-time link management

VoIP Resources:

RTP Protocol:	Compliance: RTP/RTCP (RFC3551, RFC3552)
	Echo cancellation, DTMF loading (RFC2833), NAT/Firewall support
	Standards Supported: IETF RFC 3261, RFC 2327, RFC 3550, RFC 2833
SIP Protocol:	UDP signaling, call holding, Digest Authentication
	NAT/Firewall tunneling, REFER call forwarding, DTMF transmission in multiple modes

Conference/Fax Resource:

SIP-based Fax T.38 standard; Faxing rate up to 33.6Kbps, ECM support, TIFF files in MH/MR/MMR format

Physical Characteristics:

Dimensions: 2U form factor: 88mm (H) x 440mm (W) x 479mm (L)

Net Weight: About 7.5Kg (varies with modules)

Power Requirement:

AC: 90-120V or 200-265V, Frequency: 50-60Hz; DC: 48V DC

Power Consumption: < 350W (varies by configuration)

Environment Requirement:

Operating Temperature: 0 - 40°C; Relative Humidity: 10% - 85%

Installation: Mount on standard 19-inch rack, Avoid dust accumulation, grounded installation

Quality and Warranty:

Certifications: ISO 9001:2000; Warranty: Functional Module: 3 years; Lifetime Maintenance

HANGZHOU SYNWAY INFORMATION ENGINEERING CO., LTD.

Founded in 1995 in Hangzhou, SYNWAY is a global provider of IP communication products such as VoIP Gateways, IP PBXs, and SBCs. We offer reliable, innovative, and cost-effective solutions to telecom operators, service providers, integrators, enterprises, and OEMs in over 100 countries. Through our global network of distributors and resellers, SYNWAY continues to deliver efficient and flexible communication systems to customers worldwide.

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