

Synway Uniway Series Modular Hybrid High Capacity VoIP Gateway

Most Flexible and Robust Architecture
for Unified Communications and Dispatching Solutions



The Synway UNIWAY series is an innovative hybrid VoIP gateway designed to meet customers' evolving future needs. Featuring a modular architecture, UNIWAY enables customers to flexibly connect to VoIP via FXS, FXO, E1, T1, 2G/3G/4G/5G WLS, Video, SBC, Radio, and Audio functional modules, which possess robust powerful multimedia and signaling processing capabilities.

Equipped with multiple backup mechanisms—including optional dual-power hot backup and optional dual-server hot backup, the UNIWAY delivers carrier-grade reliability and supports hot-swappable operations. In terms of single-unit density, the series offers 2U and 6U chassis options, which are configured with 8 and 30 slots for functional modules respectively. This allows the product to handle up to 960 FXS/FXO analog-to-IP lines and 120 E1/T1-to-IP lines.

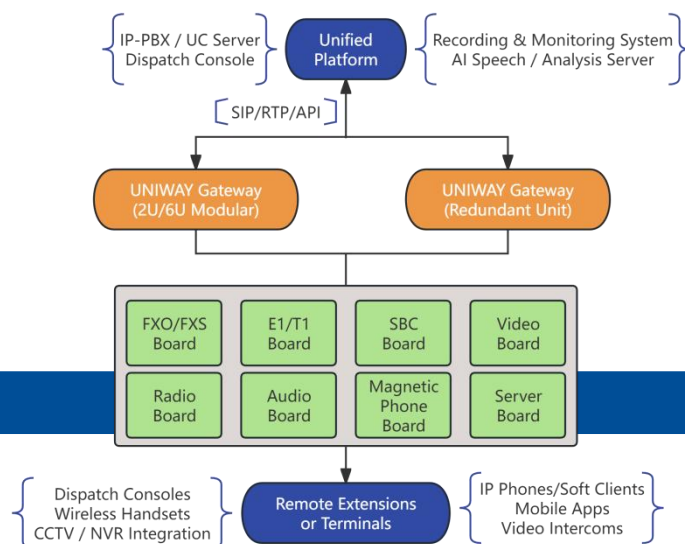
As an innovative solution for large and medium-sized enterprises pursuing flexibility and reliability, the UNIWAY series delivers unparalleled cost and performance advantages in applications such as unified communications and dispatching.

Key Features

- Modular Architecture--Connect any network to IP
- High Flexibility--8 or 30 Slots to Install Various Modules
- High Capacity-- Up to 960 Analog or 120E1/T1
- Telco-grade Reliability--Optional Dual Power
- High-Profile Application--Convergence & Enabling
- Future-Proof--Effortless Expand or Scale Down

Application Diagram

- Unified Communication & Dispatching System



Model Comparison



Model	Size	Slot	Power Supply	Controller	Mother Board(Optional)	Ethernet Port
UNIWAY2200	2U	8	2	1	1	2*1000M ETH
UNIWAY2300	2U	8	2	1+1(backup)	1+1(backup)	6*1G ETH+1*SFP+1*100M ETH(Can be double with backup Controller)
UNIWAY6000	6U	30	2	1+1(backup)	1+1(backup)	6*1G ETH+1*SFP+1*100M ETH(Can be double with backup controller)

Functional Modules



E1/T1 Board: UMG3000-B1 (1E1/T1); UMG3000-B2 (2E1/T1); UMG3000-B4 (4E1/T1);

FXS Board: UMG1000-D16S (16*FXS); UMG1000-D32S (32*FXS);

FXO Board: UMG1000-D16O (16*FXO); UMG1000-D32O (32*FXO);

Video Board: UMG-VG100 (Video Compression)

SBC Board: UMG-SBC60(60*SBC Sessions)

Radio Board: UMG-D4EM(4*Radio Ports)

Audio Board: UMG-D4AD(4*Audio Ports)

Magnetic Phone Board: UMG1000-D8MAG(8 Ports)

Optional Motherboard (Server): UMG-CPU03, Intel Core i7-3632QM @2.20GHz, 4 cores, 16GB RAM, With Optional HDD

Optional Motherboard (Server): UMG-CPU04, Intel Core i5-3210M @2.50GHz, 2 cores, 8GB RAM, with Optional HDD

Specifications



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)
	Conversion of voice channels to conferencing or fax sessions

Signaling Protocols:	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
SIP Protocol:	Standards Supported:IETF RFC 3261, RFC 2327, RFC 3550, RFC 2833
	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

Power Requirement:

AC: 90-120V or 200-265V, Frequency: 50-60Hz; DC: 48V DC; Max Power Consumption: < 520W (varies by configuration)

Notes: current power supply only limits to 480 FXS ports, and has to be customized for 480-960 FXS capacity. E1, FXO and other functional modules can be fully uploaded.

Environment Requirement:

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

Quality and Warranty:

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