

MultiVOIP® GSM

SIP-to-Cellular Gateway



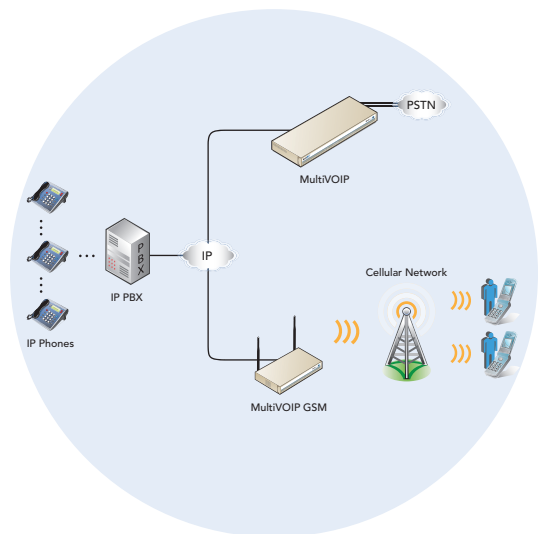
The MultiVOIP® GSM SIP-to-cellular gateway routes voice from your internal network to a GSM connection. By integrating a GSM connection into your existing network, you can realize substantial savings on long distance toll charges. As an added benefit, the MultiVOIP GSM serves as a backup connection to remote VoIP sites in case of external Internet failure. By placing MultiVOIP GSM units at all facilities, you can direct your VoIP traffic over a cellular connection and do not need to route traffic to the PSTN. The MultiVOIP GSM gateway is available in a 2 port model and maximizes the investments you've already made in your data and voice network infrastructure.

Features

- 2 ports for communication over a SIP-to-cellular connection
- Ethernet connectivity and full IP compatibility with existing routers and WAN infrastructure
- Supports SIP for sending voice over the Internet
- SIP survivability in the event of LAN/WAN failure
- Supports SIP supplementary services including Call Forward, Call Transfer and Call Hold
- Voice compression to 5.3K bps per call with support for multiple algorithms including ITU G.723 and G.729
- VAD and CNG support
- QoS via DiffServe or 802.1p
- Supports STUN for usage behind firewall
- Automatic internal load balancing among GSM modules
- Configuration and management using a Web browser or Windows
- Two-year warranty

Benefits

- Toll bypass voice communications
- Cellular voice quality
- Turnkey solution



Highlights

Reduce Cellular Telecom Costs. Cellular mobile costs have grown to account for over one-third of the company bill for telecommunications.* The MultiVOIP GSM gateway connects directly to any business phone system and routes incoming and outgoing calls over a cellular network allowing companies to take advantage of their free “in-network” minutes. Not only are cell-to-cell calls free, but this also helps to reduce the number of pooled minutes needed. In addition, users can route the call forwarding “follow-me” feature over the cellular network. All of this collectively adds up to lower cellular telecom costs.

* Insight Research, 2006

Bandwidth Management. Bandwidth is used only when someone is speaking. The silence suppression/Voice Activity Detection (VAD) feature is an option that frees unused call bandwidth for data traffic. This is significant, since callers are usually silent for 60 percent of the call. When using silence suppression, the gateway also offers Comfort Noise Generation (CNG) at the receiving end so the user knows the line has not dropped. In addition, the MultiVOIP GSM gateway supports voice compression standards like G.729 (8:1) and G.723 (10:1). These standards help minimize the bandwidth required for voice.

Local Office Survivability. The MultiVOIP GSM gateway functions as the primary or secondary SIP server for IP phones used at the remote office. While in normal mode, the MultiVOIP GSM gateway will transparently pass all IP phone registrations to the central PBX/server. This allows the remote IP phones to function with a full feature set. In the event of a LAN or WAN failure, the MultiVOIP GSM gateway automatically redirects calls through a cellular connection.

Once in survivable mode, the SIP server built-into the MultiVOIP GSM gateway takes full command providing station-to-station, station-to-trunk and trunk-to-station call support. This allows the office to maintain critical communications, with a limited feature set, until full functionality is restored. In the event of a LAN failure, the MultiVOIP GSM gateway and server goes into LAN fail-over survivability mode. Since the LAN is down, IP phones will not function, however, inbound/outbound calls can still be made via a cellular connection. The user would simply need to dial an extension to reach the cellular network before making an outbound call.

Ordering Information

Product	Description	Region
MVPGSM-2	2-Port SIP-to-Cellular Gateway	Global

Specify country when ordering.

Made in Mounds View, MN, U.S.A.

Features and specifications are subject to change without notice.

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Comprehensive Service and Support. The Multi-Tech commitment to service means we provide a two-year product warranty and service that includes free telephone technical support, 24-hour web site and ftp support.

Specifications

GSM

Number of Modules: 2
Number of SIM Placeholders: 2
Antenna: 2 external
Quad-band GSM 850/900/1800/1900

SMA Antenna Connectors

50 ohm SMA (female connector)

WAN Port

Format: Ethernet/Ethernet II or SNAP
Interface: 10/100BaseT

Console Port

Interface: RS-232C/D; RJ-45 (RJ-45 to DB9 cable included)
Speed & Format: 115.2K bps asynchronous

Protocols

SIP (RFC 3261), RTP, RTCP, DTMF out-of-band (RFC 2833)

Bandwidth Management

G.711, G.723, G.726, G.729 & silence suppression, VAD, CNG

Voice Quality

G.165, G.168, adaptive echo cancellation, forward error correction, bad frame interpolation, tunable latency, dynamic jitter buffers

Management

Web browser, flash upgradeable

Voltage

+9 to 12 VDC (9VDC @ 750mA; 12VDC @ 580mA)

Power

Voltage & Frequency: 110V/240VAC, 50/60 Hz

Dimensions

9.79" W x 1.71" H x 7.65" D; 4.75 lbs.
(24.87 cm x 4.34 cm x 19.42 cm; 2.15 kg)

Operational Temperature

-5° to +55° C (UL listed @ 40° C limited by power supply)
20-90% non-condensing relative humidity

Certification

CE Mark
EMC: FCC Parts 2/15/22/24, RSS 132/133, EN 301 489-1, EN 301 489-7, EN 301 511, EN 55022, EN 55024
Safety: UL 60950, EN 60950, cUL, AS/NZS 60950:2000
Telecom: FCC Part 68, CS-03

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