

# MultiVOIP® FX

## SIP Gateways



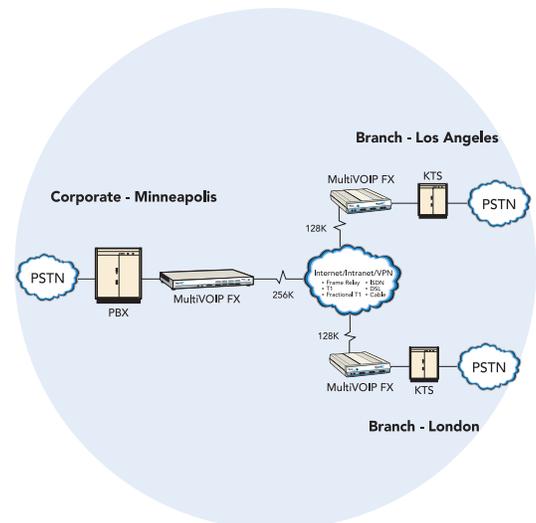
The MultiVOIP® FX SIP gateway provides toll-free voice and fax communications over the Internet or Intranet. By integrating voice and fax into your existing data network, you can realize substantial savings on inter-office long distance toll charges. The MultiVOIP FX gateway is available in 2, 4 and 8 port models. It connects directly to phones, fax machines, key systems, PSTN lines or a PBX to provide real-time, toll-quality voice connections to any office on your VOIP network. The MultiVOIP FX gateway is designed to maximize the investments you've already made in your data and voice network infrastructure.

## Features

- 2, 4, or 8 ports for communication over an existing IP network or the Internet
- Ethernet connectivity and full IP compatibility with existing routers and WAN infrastructure
- Supports FXS/FXO on each channel for direct analog connection to phones, key telephones, PBX extensions, PSTN lines or PBX trunks
- Supports SIP for sending voice over the Internet
- 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
- PSTN failover automatically routes calls over the PSTN network if the IP network is down
- Supports SIP supplementary services including call forward, call transfer and call hold
- T.38 real-time fax relay for interoperability among other VOIP equipment
- Configuration and management using a Web browser or Windows
- Two-year warranty

## Benefits

- Toll bypass voice/fax communications
- PSTN voice quality
- Connects directly to phones, fax or PBX
- Turnkey solution



## Highlights

**Toll Bypass Long Distance Calling.** The MultiVOIP FX gateway is targeted at multi-location businesses looking to reduce toll charges between frequently called sites. Typically inter-office calling represents 25-40% of a company's total long distance bill. To bypass these charges, each office installs and configures a MultiVOIP FX gateway on their network and connects it to their existing phone equipment to place calls, send faxes or make modem connections to the other offices on the VOIP network.

**Off-net Calling.** Telecommuters or customers off the IP network can make free long distance calls by dialing into a local MultiVOIP FX gateway and placing toll-free calls to any location on the VOIP network. You can even have a MultiVOIP FX gateway at a remote site dial a local phone number for a free person-to-person long distance call.

**Off-premise Voice Extensions.** The MultiVOIP FX gateway extends the reach of a company's PBX into remote office/SOHO locations without installing another PBX. Now, anyone can place calls to the remote office by simply dialing an extension number. With support for SIP supplementary services, the MultiVOIP FX gateway provides for call transfer, call forwarding and call hold.

**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 FX gateway supports voice compression standards like G.729 (8:1) and G.723 (10:1). These standards help minimize the bandwidth required for voice.

**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.

## Ordering Information

| Product   | Description                | Region |
|-----------|----------------------------|--------|
| MVP210-FX | 2-Port FXS/FXO SIP Gateway | Global |
| MVP410-FX | 4-Port FXS/FXO SIP Gateway | Global |
| MVP810-FX | 8-Port FXS/FXO SIP Gateway | Global |
| MVP428-FX | 4-Port Expansion Card      | 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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## Specifications

### Ports

Number of Ports: 2, 4, or 8  
Port Interface: FXS, FXO support on each port  
FXS Interface: KTS, telephone set, or fax; ground & loop start  
FXO Interface: PBX station; CO line, loop start, 2-wire  
Dialing: DTMF or pulse  
Connectors: 1 RJ-11 per port

### LAN 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

### Power

Voltage & Frequency: 115V/240VAC, 47/60 Hz

### Power Consumption

2-Port Model: 19W  
4- & 8-Port Models: 46W

### Dimensions

2-Port Model: 6.2" w x 1.4" h x 9.0" d; 2 lbs.  
(15.7 cm x 3.6 cm x 22.9 cm; 0.91 kg)  
4- & 8-Port Models: 17.3" w x 1.7" h x 8.4" d; 7.4 lbs.  
(43.9 cm x 4.3 cm x 21.3 cm; 3.4 kg)

### Certification

EMC: FCC Part 15 Class A, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3  
Safety: CE, UL 60950, EN 60950, cUL, ACA TS-001  
Telecom: FCC Part 68, CS-03, TBR21, ACA TS-031, TBR3

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