Voice over IP Interface (VOIP-8, VOIP-4, VOIP-2, VOIP-1)

Description

Voice over IP (VoIP) Interface allows all 400-Series Emergency Phones to be used over an IP data network. VOIP units integrate seamlessly with existing VoIP phone systems, and support standard SIP, SPP and H.323 protocols. For sites without an existing VoIP phone system, two VOIP units can be used in conjunction to send emergency calls over the IP network and then to remotely "jump off" onto an existing PBX or PSTN phone network.

Features

- Accommodates up to eight, four, two, or one emergency phone(s) (VOIP-8, -4, -2, -1, respectively)
- Can be configured to route emergency calls onto or off of the network
- Ethernet connectivity and full IP compatibility with existing routers and WAN infrastructure
- Supports standard VoIP protocols H.323, SIP, and SPP
- Voice prioritization using industry-standard Differentiated Services Protocol (DiffServ QoS)
- Echo cancellation and jitter buffer ensure top-quality connection
- Failover support: can be configured to divert calls to the PSTN or PBX temporarily if the IP network is down (Note: Not available for VOIP-1. Requires one phone port for each backup line, limiting number of emergency phones that can be used)
- GUI management software can be run locally via RS232 or remotely via web interface
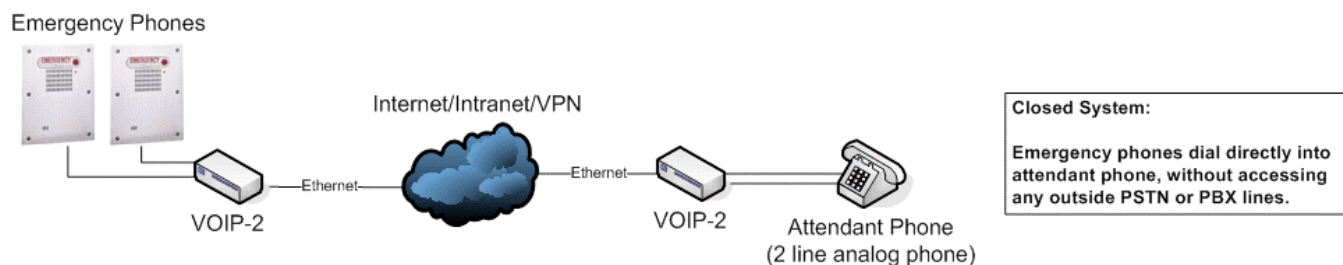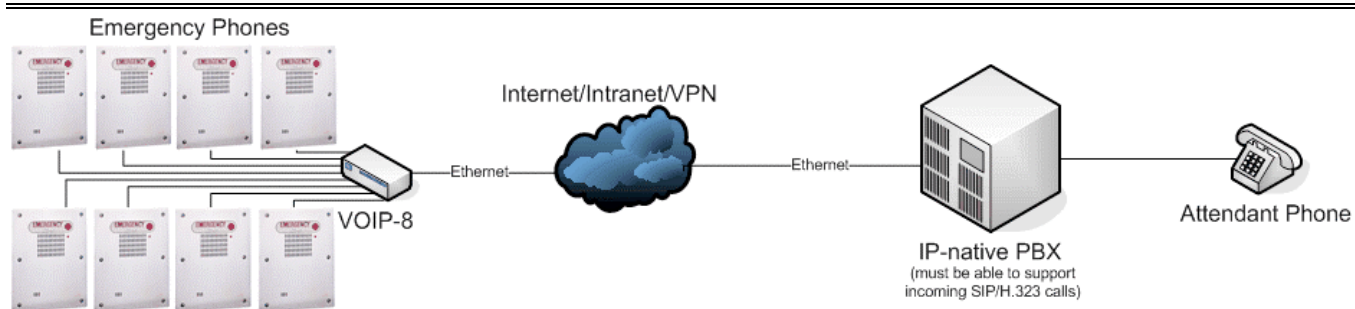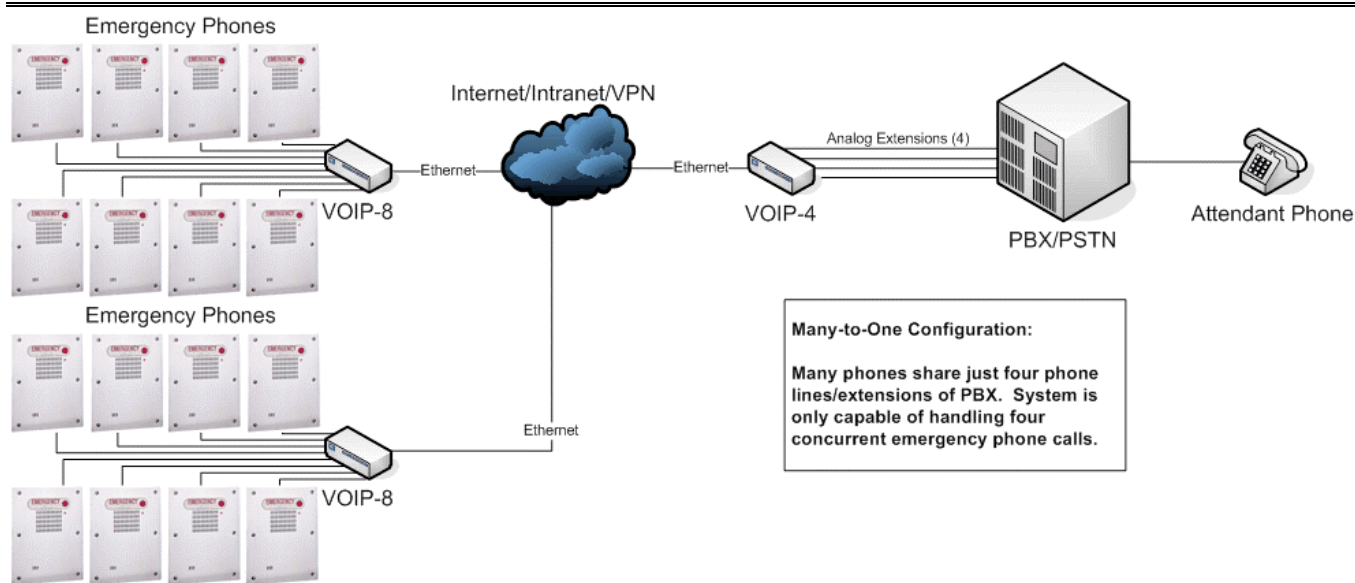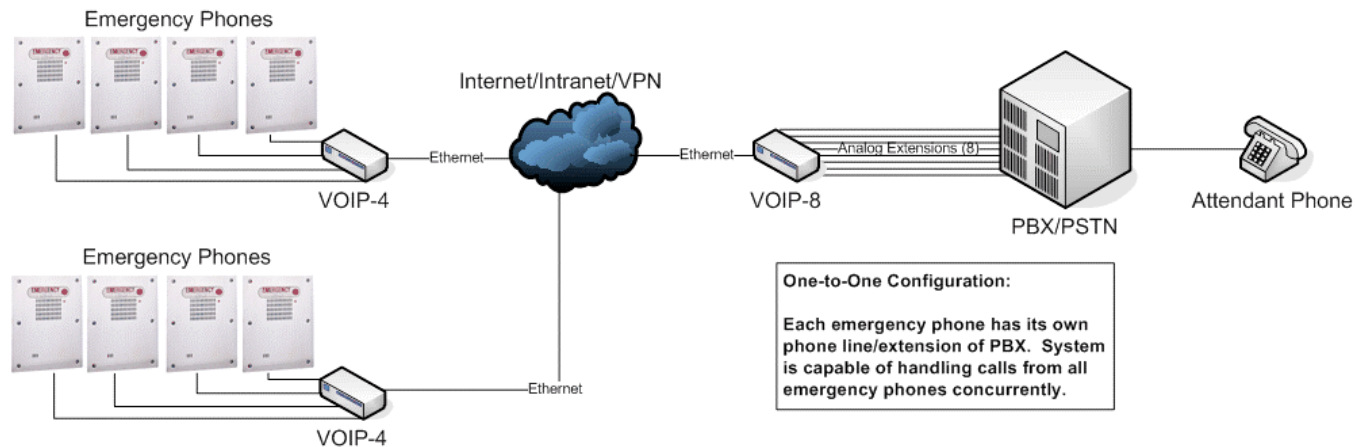
Specifications

Power:	115V/240V AC, 47/60 Hz
Power Consumption:	VOIP-1: 4.5W, VOIP-2: 19W, VOIP-4/VOIP-8: 46W
Temperature Range:	-20ºC to 60ºC (-4ºF to 140ºF), 5% to 95% humidity
Dimensions:	VOIP-1: 4.3(108) L x 5.6(142) W x 1.0(25) H in(mm) VOIP-2: 6.2(158) L x 9.0(229) W x 1.4(36) H in(mm) VOIP-4/VOIP-8: 17.4(442) L x 8.0(203) W x 3.8(95) H in(mm)
Weight:	VOIP-1: 2 lbs (0.9 kg), VOIP-2: 3 lbs (1.4kg), VOIP-4/VOIP-8: 8.4 lbs (3.9 kg)
LAN Port:	Ethernet/Ethernet II or SNAP
LAN Interface:	10/100BaseT
Protocols:	H.323 V4, SIP, H.450.2-H.450.4, H.450.6 & H.450.8, RTP, RTCP, SMTP, Q.931, Q.Sig, T.38 & Group 3 fax relay, DTMF out-of-band (RFC Z833)
Bandwidth Management:	G.711, G.723, G.726, G.727, G.729 & proprietary voice compression, silence suppression, VAD, CNG
Voice Quality:	DiffServ, G.165, G.168, adaptive echo cancellation, forward error correction, bad frame interpolation, tunable latency, dynamic jitter buffers
Management:	Web browser, Windows, SNMP agent, flash upgradeable
Mounting:	Free-standing (stackable) or 19" EIA standard rack mount (VOIP-8 and VOIP-4 only)
Certifications:	FCC Part 15 Class A, EN55022, EN55024, EN61000-3-2, EN61000-3-3, CE, UL 60950, EN60950, cUL, ACA TS-001, FCC Part 68, CS-03, TBR21

Options

Can be used in conjunction with **VOIP-RF** to create a 2.4GHz WiFi wireless network for 400-Series emergency phone communications.

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System Layout Examples

One-to-One Configuration:

Each emergency phone has its own phone line/extension of PBX. System is capable of handling calls from all emergency phones concurrently.

Many-to-One Configuration:

Many phones share just four phone lines/extensions of PBX. System is only capable of handling four concurrent emergency phone calls.

IP-native PBX
(must be able to support incoming SIP/H.323 calls)

Closed System:

Emergency phones dial directly into attendant phone, without accessing any outside PSTN or PBX lines.

(see VOIP-RF cutsheet for more examples including wireless connections)
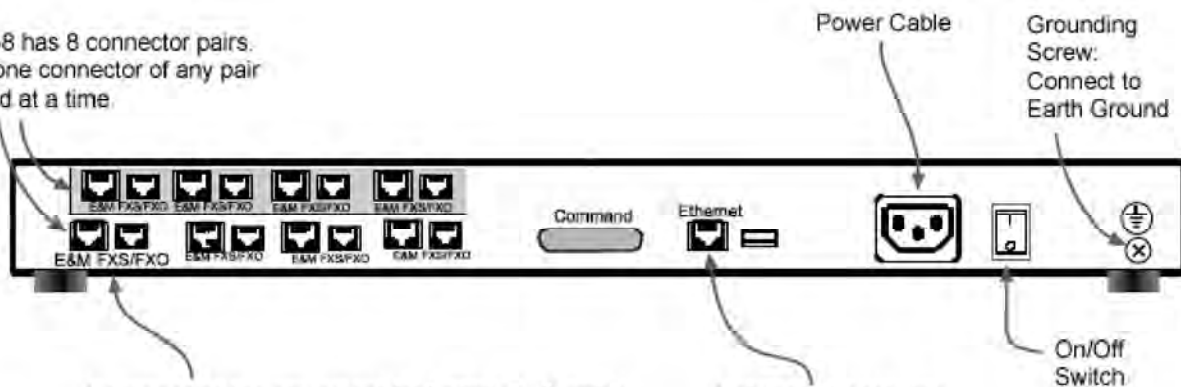
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VOIP-8 chassis

VOIP Hookup
(VOIP-8 shown)

VOIP-8 has 8 connector pairs. Only one connector of any pair is used at a time.

Power Cable

Grounding Screw: Connect to Earth Ground

Command

Ethernet

On/Off Switch

Cabling to phone equipment: (software configured)
FXS: connects to emergency phones (RJ-11 connector)
FXO: connects to analog extension of PBX or standard PSTN line (RJ-11 connector)
E&M: not used at this time (RJ-45 connector)

Cabling to IP network (RJ-45 connector).