

Vega 50 Media Gateway



Take advantage of the newest Voice over Internet (VoIP) technology and achieve wide-ranging benefits, such as reduced telephone charges and transition costs, by seamlessly integrating your existing equipment with a Vega 50 Media Gateway from Sangoma.

Vega 50 Analog / BRI Gateway

The Vega 50 Media Gateway is designed to simplify the integration of analog phone systems or Basic Rate ISDN (BRI) devices to a VoIP network. It supports up to 10 analog ports, or 8 BRI channels on 4 physical interfaces. The following gateway configurations are available as standard:

Analog

- » 4 FXS + 2 FXO
- » 8 FXS + 2 FXO
- » 4 FXO or 8 FXO

BRI/ISDN2

- » 2 BRI interfaces (4 channels)
- » 4 BRI interfaces (8 channels)

Each BRI interface can be independently configured as network side or terminal side. The Vega 50 Media Gateway can, therefore, be connected to both a PBX & the ISDN simultaneously. This configuration provides:

- » No disruption to the configuration of existing equipment
- » Flexibility & choice for call routing

Quick Facts

- » 2–10 Ports, Analog or BRI
- » Flexible Call Routing for Fallback & Least Cost Routing
- » Emergency PSTN Backup
- » Interoperability with a Wide Range of Legacy and IP Equipment
- » SIP and H.323 Support
- » Voice, FAX and Modem Support
- » Optional Annual Support & Software Maintenance Plans



Front



Back

ADVANCED CAPABILITIES

Local Survivability

This option enables continuity of service during WAN/SIP outages and may be configured to operate in a number of ways including:

- » Standalone proxy
- » IP device survivability
- » IP device call routing
- » SIP to SIP call routing
- » Emergency call routing

Open, Non-Proprietary Interfaces

The Vega 50 Supports SIP, H.323 and T.38 Fax

Vega 50 media gateways support ETSI BRI and standard analog loop start signaling. It can be configured for different country requirements, such as tones and line impedance.

All Vega gateways have proven interoperability with a wide range of existing telecommunications and VoIP equipment.

Lifeline PSTN Backup

Vega 50 media gateway variants equipped with FXS ports are also fitted with two FXO ports. When powered the Vega can route calls to or from these two FXO ports. Under power failure conditions the two FXO ports provide a hard-wired bypass to two FXS ports allowing PSTN calls to be made even under this failure condition.

USE CASES

Service Provider Applications

- » Customer premises gateway for SIP trunking
- » FXS endpoints for IP Centrex
- » Survivability for IP phones Enterprise Applications

Enterprise Provider Applications

- » Enterprise VoIP networking
- » PSTN trunking for IP-PBXs

TECHNICAL SPECIFICATIONS

Interfaces

VoIP Interface:

- » SIP
 - » Audio Codecs:
 - > G.711 (a-law/μ-law)
 - > G.729a (8kbps)
 - > G.723.1 (5.3/6.4 kbps)
 - > G.726
 - > T.38
- » Fax support - up to G3 FAX, using T.38
- » Modem support - up to V.90, using G.711
- » Up to 8 VoIP channels
- » H.323 version 4

Telephony Interface:

- » ETSI BRI
 - > 2x or 4x S/T interfaces presented on RJ-45
 - > Point to point or point to multipoint
 - > Each interface can be configured NT or TE
- » Analog
 - > 4x or 8x FXS ports with 2 FXO ports presented on RJ-11
 - > 4x or 8x FXO ports presented on RJ-11
 - > 600R, 900R or CTR-21 line impedance

LAN Interface:

- » 2x RJ-45, 10BaseT / 100BaseTx, full / half duplex

Features

Telephony Features:

- » Call waiting
- » Call forward – unconditional, busy, no-answer
- » Call transfer – blind, consultative
- » 3-way conference
- » Do not disturb
- » Message waiting indicator – audible, visual
- » Music on hold
- » Executive barge
- » Caller ID presentation & screening
- » H.323 gatekeeper registration
- » SIP registration & digest authentication

Operations, Maintenance & Billing:

- » HTTP(S) web server
- » RADIUS accounting & login
- » Remote firmware upgrade
- » Auto configuration upgrade
- » SNMP V1, V2 & V3
- » Syslog
- » TFTP/FTP support
- » VT100 – RS232/Telnet/SSH
- » Voice readback of IP parameters

Routing & Numbering:

- » Direct Dialing In (DDI)
- » SIP registration to multiple proxies
- » Dial planner – sophisticated call routing capabilities, standalone or gatekeeper/proxy integration
- » FXS ports support call waiting & call transfer (blind & consultative)
- » NAT traversal

Call Quality:

- » Adaptive jitter removal
- » Silence suppression
- » Type of Service (ToS)
- » Differentiated Services (DiffServ)
- » Comfort noise generation
- » 802.1p/Q VLAN tagging
- » QoS statistics reporting
- » Echo cancellation (G.168 up to 64ms tail)

Security & Encryption: *Optional

- » *Media – SRTP
- » *SIP – TLS
- » Management – HTTPS, SSH Telnet
- » Configurable user login passwords
- » Local Survivability

Hardware

Certification:

- » EMC (CLASS B)
 - > EN55022
 - > EN55024
 - > FCC Part 15
 - > AS/NZS3548
- » Safety
 - > EN60950
 - > IEC60950
 - > UL60950
 - > AS/NZS60950

Environmental:

- » 0° .. 40°C
- » 0% .. 90% humidity (non-condensing)

FXS Line Length:

- » 1500ohm, up to 8km

LED Indicators:

- » LAN: Speed/Activity

Dimensions:

- » 300mm (W) x 237mm (D) x 45mm (H)
- » Weight: 1kgs (2.2lbs)
- » Rackmount brackets supplied

Power Supply:

- » External 12V 24W AC/DC adapter