Vega 50
Analog/BRI Gateway

- ☑ 2–10 Ports, analog or BRI
- ☑ Flexible call routing for fallback and 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

Service Provider Applications:
- » Customer premises gateway for SIP trunking
- » FXS endpoints for IP Centrex
- » Survivability for IP phones

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

Front View

Vega 50: 8 FXO – Rear View

Overview

The Vega 50 media gateway connects a range of legacy telephony equipment, including PBXs, ISDN telephones, the ISDN, analog phones & the PSTN to IP networks.

The Vega 50 media gateway supports up to 10 analog ports, or 8 basic rate ISDN channels on 4 physical interfaces. The following gateway configurations are available as standard:

ANALOG

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

BRI / ISDN2

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

Each BRI interface can be independently configured as network ide 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

ENP – Enhanced Network Proxy (Optional)

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

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

Open, Non-Proprietary Interfaces

Vega 50 media gateways support ETSI BRI. Analog Vega 50 media gateways support standard loop start signalling. Vega 50 media gateways have proven interoperability with a wide range of existing telecommunications and VoIP equipment. All VegaStream gateways can support SIP, H.323 & T.38 FAX. The gateways can be configured for different country requirements, such as tones and line impedance.

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.

Technical Specifications

Interfaces

VoIP
- » SIP
- » H.323 version 4
- » Audio codecs:
- » G.711 (a-law/μ-law) (64 kbps)
- » G.729a (8kbps)
- » G.723.1 (5.3/6.4 kbps)
- » Clearmode
- » *GSM
- » FAX Support – up to G3 FAX, using T.38
- » Modem Support – up to V.90, using G.711
- » Up to 8 VoIP channels

Telephony Interfaces
ETSI BRI
- » 2 or 4 S/T interfaces presented on RJ45
- » Point to point or point to multipoint
- » Each interface can be configured NT or TE

Analog
- » 4 or 8 FXS ports with 2 FXO ports presented on RJ11
- » 4 or 8 FXO ports presented on RJ11
- » 600R, 900R or CTR-21 line impedance

LAN Interfaces
- » 2 RJ-45s, 10 BaseT/100 BaseTX, full/half duplex

Features

Telephony Features
Available on FXS ports:
- » 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

Telephony Features
- » Caller ID presentation
- » Caller ID screening allows connections to be accepted only from selected call sources
- » H.323 gatekeeper registration
- » SIP Registration & Digest Authentication

Operations, Maintenance & Billing
- » HTTP(S) web server
- » Radius Accounting & Login
- » Remote firmware upgrade:
  - • Auto code upgrade
  - • Auto configuration upgrade
- » SNMP V1, V2 & V3
- » Syslog
- » TFTP/FTP support
- » VT100 – RS232/Telnet/SSH
- » Voice readback of IP parameters

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

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

Security & Encryption
- » *Media – SRTP
- » *SIP – TLS
- » Management – HTTPS, SSH Telnet
- » Configurable user login passwords
- » *Enhanced Network Proxy (ENP)

Hardware

Certification

EMC (Class A)	Safety	Telecoms
EN55022	EN60950	TBR21 (FXO)
EN55024	IEC60950	FCC Part 68
FCC Part 15	UL60950	CS-03
AS/NZS3548	AS/NZS60950	TBR3 (BRI)
VCCI		

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

FXS Line Length
- » 1500ohm, up to 8km

Indicators
LED:
- » LAN: speed / activity

Physical Dimensions
- » 299.73mm (11.80") x 44.45mm (1.75") x 237.06mm (9.33") width/height/depth
- » Weight: 1.02kg (unit only)
- » Rackmount brackets supplied

Power
- » Standard product: External 12V 24W AC/DC adapter

Program Storage
- » Code & configuration data are stored in FLASH & executed from RAM

For More Information:
- » Visit http://www.sangoma.com/products/vega-50/

*Optional

Sangoma is continuously improving its products, features, design, therefore, specifications in this data sheet may be modified without prior notice or obligation.