

Vega Series Analog/Digital Gateways



Implementing a Vega Gateway is an ideal addition to your business continuity plans. In spite of external network failures, you can stay connected—Vega Gateways have industry-leading resiliency and fault tolerance built right in. Enhanced Network Proxy (ENP) keeps SIP endpoints operational in the event that connectivity to the main switch is lost.

- **ENTERPRISES** Take advantage of wide ranging benefits of next generation VoIP technology, like reduced telephony charges. Keep transition costs down by seamlessly integrating existing premise equipment with a Vega gateway from Sangoma.
- **SERVICE PROVIDERS** Sangoma Vega gateways help you introduce new IP products to your client base, and add revenue streams, while reducing your costs.

Award-winning IP-to-TDM stand-alone gateway devices from Sangoma effectively bridge disparate technologies easily and cost-effectively.

Vega Gateways support ISDN BRI, PRI, FXS, FXO, and E1/T1 line codes and protocols for installations ranging from small businesses to large enterprises. Easily deployed as Service Provider Customer Premises Equipment (CPE), the Vega appliances feature auto-detection and simple GUI-based configuration. The Vega series also include models for multi-tenant applications via legacy telephone wiring and systems.

Why Choose Vega Gateways?

The Most Fault Tolerant Gateways in their Class

- ☑ **Qualified and tested for use with Microsoft® Lync®**
- ☑ Local Survivability: Stay Connected
- ☑ Emergency PSTN Backup
- ☑ Flexible Call Routing for Fallback and Least Cost Routing
- ☑ Interoperable with a Range of Legacy and IP Equipment
- ☑ Voice, Fax and Modem Support

Service Provider Applications:

- » Survivability for IP phones
- » Customer premises gateway for SIP trunking
- » Low-density PSTN gateway

Enterprise Applications:

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

Vega Series	Vega 50	Vega 100G*	Vega 200G*	Vega 400G*	Vega 5000
VoIP Channels	4-16	Up to 30	Up to 60	Up to 120	24 or 50
Telephony Interfaces	FXO/FXS/BRI	1 T1/E1	2 T1/E1	4 T1/E1	FXS
Audio Codecs	<ul style="list-style-type: none"> • G.711 • G.729a • G.723.1 • G.726 • T.38 	<ul style="list-style-type: none"> • G.711 • G.729a • G.723.1 • G.726 • T.38 	<ul style="list-style-type: none"> • G.711 • G.729a • G.723.1 • G.726 • T.38 	<ul style="list-style-type: none"> • G.711 • G.729a • G.723.1 • G.726 • T.38 	<ul style="list-style-type: none"> • G.711 • G.729a • G.723.1 • G.726 • T.38

CONTINUE READING »

TECHNICAL SPECIFICATIONS

Interfaces:

VOIP INTERFACES:

SIP

H.323 version 4 (Vega 50, Vega 5000 only)

Audio codecs:

- G.711 (a-law/ μ -law) (64 kbps)
- G.723.1 (5.3/6.4 kbps)
- G.726
- G.729a (8kbps)

FAX Support – up to G3 FAX, using T.38

Modem Support – up to V.90, using G.711

Up to 120 VoIP channels (depending on the model)

TELEPHONY INTERFACES:

ANALOG

- Vega 50: 1 FXO/FXS port per RJ-11
- Vega 5000: Up to 25 FXS ports per RJ-21
- 600R, 900R or CTR-21 line impedance

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

Primary Rate ISDN (User configurable NT/TE):

E1

- Euro-ISDN
- VN4
- ISO QSIG
- CAS R2MFC
- CAS Private Wire (Vega 400 only)

T1

- NI1/NI2
- CAS (RBS)
- AT&T 5ESS
- ISO QSIG
- DMS100
- CAS Private Wire

LAN INTERFACES:

2 RJ-45s, 1000BaseT (Vega 100G/200G/400G)/100 BaseT/10 BaseT, full/half duplex

IPv4

Features:

IDENTIFICATION:

Caller ID presentation

Caller ID screening allows connections to be accepted only from selected call sources

SIP Registration & Digest Authentication

H.323 gatekeeper registration (Vega50 only)

OPERATIONS, MAINTENANCE & BILLING:

HTTP(S) web server

RADIUS Accounting & Login

Remote firmware upgrade:

- Auto code upgrade
- Auto config. upgrade

SNMP V1, V2 & V3

TFTP/FTP support

VT100 – RS232/Telnet/SSH

ROUTING & NUMBERING:

Dial Planner – sophisticated call routing capabilities, standalone or gatekeeper/proxy integration

Direct Dialing In (DDI)

SIP registration to multiple proxies

NAT traversal

CALL QUALITY:

Adaptive jitter removal

Differentiated Services (DiffServ)

Comfort noise generation

Silence suppression

QoS statistics reporting

802.1p/Q VLAN tagging

Echo cancellation (G.168 up to 128ms)

Type of Service (ToS)

SECURITY & ENCRYPTION:

Management – HTTPS, SSH Telnet

Configurable user login passwords

SIP/TLS and SRTP

Hardware:

CERTIFICATION:

EMC (CLASS B)

SAFETY

TELECOMS (ISDN)

EN55022

EN60950

E1: TBR4

EN55024

IEC60950

T1: FCC Part 68

FCC Part 15

UL60950

T1: CS-03

AS/NZS3548

AS/NZS60950

VCCI

PHYSICAL DIMENSIONS:

All units are standard 1U high and support rack mount

EXTERNAL POWER SUPPLY:

100..240 VAC, 47..63 Hz, 1..0.5 A

-48V DC, 1.2A (Max) available subject to MOQ (Optional)

PROGRAM STORAGE:

Code and configuration data are stored in FLASH and executed from RAM

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