

Vega Series Analog/Digital Gateways

The award-winning Vega series offers a broad range of IP-to-TDM stand-alone gateway devices designed to bridge disparate technologies easily and cost-effectively. Vega gateways provide the perfect answer for IP-based voice services and for connecting to service provider broadband networks or the PSTN.

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



FEATURES:

- ☑ **EXCLUSIVE** Local Survivability
- ☑ Flexible Call Routing for Fallback and Least Cost Routing
- ☑ Emergency PSTN Backup
- ☑ Interoperability with a Wide Range of Legacy and IP Equipment
- ☑ Voice, FAX and Modem Support

Service Provider Applications:

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

Enterprise Applications:

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

Vega Series	Vega 50	Vega 100	Vega 200	Vega 400	Vega 5000
VoIP Channels	4-16	Up to 30	Up to 60	Up to 120	24 or 50
Telephony Interfaces	Analog/BRI	Digital – 1 T1/E1	Digital – 2 T1/E1	Digital – 4 T1/E1	Analog
Audio Codecs	<ul style="list-style-type: none"> • G.711 • G.729a • G.723.1 • G.726 • GSM-FR • iLBC • 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
VoIP Protocols	SIP, H.323	SIP, H.323	SIP, H.323	SIP, H.323	SIP, H.323
Supported TDM Protocols	Analog FXO/FXS: 2 wire loop start, BRI: EuroISDN	ETSI ISDN, NI1, NI2, AT&T 5ESS, DMS100, QSIG, CAS, G.711 Modem Support, VN4, R2MFC	ETSI ISDN, NI1, NI2, AT&T 5ESS, DMS100, QSIG, CAS, G.711 Modem Support, VN4, R2MFC	ETSI ISDN, VN4, NI1, NI2, AT&T 5ESS, DMS100, QSIG, CAS, G.711 Modem Support, R2MFC	Analog FXO/FXS: 2 wire loop start
Standard Warranty	12 Months	12 Months	12 Months	12 Months	12 Months

CONTINUE READING »

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)
 - G.726
 - GSM-FR (Vega50 only)
 - iLBC (Vega50 only)
- » FAX Support – up to G3 FAX, using T.38
- » Modem Support – up to V.90, using G.711
- » Up to 120 VoIP channels

Telephony Interfaces

Analog

- » Vega 50: 1 analog port per RJ-11
- » Vega 5000: Up to 25 ports per RJ-21
- » 2 FXO ports on RJ-45/RJ-11 connectors
- » 600R, 900R or CTR-21 line impedance

Primary Rate ISDN (User configurable NT/TE):

E1

- » Euro-ISDN
- » ISO QSIG
- » VN4
- » QSIG Feature Transparency (H.323)
- » CAS Private Wire
- » CAS R2MFC

T1

- » NI1/NI2
- » AT&T 5ESS
- » DMS100
- » CAS Private Wire
- » CAS (RBS)
 - E&M wink start
 - Loop start
 - Ground start
- » ISO QSIG
- » QSIG Feature Transparency (H.323)

Bypass relays terminating onto RJ45 for resiliency

LAN Interfaces

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

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

Operations, Maintenance & Billing

- » HTTP(S) web server
- » RADIUS Accounting & Login

- » Remote firmware upgrade
 - Auto code upgrade
 - Auto configuration 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
- » 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 128ms)

Security & Encryption (*Optional)

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

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

Environmental

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

Indicators

LED:

- » Power
- » ISDN: NT/TE & Link up where fitted
- » LAN: speed / activity

Physical Dimensions

- » All units are standard 1U high and support rack mount
- » Rackmount brackets supplied 483mm (19") 1U

Power

- » 100..240 VAC, 47..63 Hz, 1..0.5 A
- » -48V DC also available, 1.2A (Max)

Program Storage

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

Because Sangoma is continuously improving our products, features, design, specification or this data sheet may be modified without prior notice or obligation.