Vega Gateway Series Analog/Digital

As business telecommunication requirements evolve with time, Sangoma VoIP Gateways are the ideal solution to connect your current telephony infrastructure with VoIP infrastructure, while keeping security, business continuity and cost in mind. Our wide customer-base trusts our gateways for small business, Enterprise, contact center and Service Provider solutions. Not only do we provide the most fault tolerant and resilient gateway on the market we are also becoming the most popular choice for interoperability with SIP trunk providers and large vendors.

SANG

Sangoma Media 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. Local Survivability keeps SIP endpoints operational in the event that connectivity to the main switch is lost.

"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 Premise 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.

Qualified for Lync 2013 and Skype for Business 2015.

Lync S Skype for Business

The Most Fault Tolerant Gateways in their Class

- » 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

Vega 60G <

Vega 3050G ⁴

- » Voice, fax and modem support
- » Hardware failover using port bypass (Vega 400G Only)
- » Optional annual support and software maintenance plans

USE CASES

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 60G | Vega 100G | Vega 200G | Vega 400G | Vega 3000G | Vega 3050G |
|-------------------------|---|---|---|---|---|---|
| VoIP Channels | 4 - 8 | Up to 30 | Up to 60 | Up to 120 | 24 | 50 |
| Telephony Interfaces | FXO/FXS/BRI | 1 T1/E1 | 2x T1/E1 | 4x T1/E1 4x Failover Ports | 24x FXS | 50x FXS 2x FXO* |
| Audio Codecs | » G.711 » G.729a » G.723.1 » G.726 » T.38 | » G.711 » G.729a » G.723.1 » G.726 » T.38 | » G.711 » G.729a » G.723.1 » G.726 » T.38 | » G.711 » G.729a » G.723.1 » G.726 » T.38 | » G.711 » G.729a » G.723.1 » G.726 » T.38 | » G.711 » G.729a » G.723.1 » G.726 » T.38 |

TECHNICAL SPECIFICATIONS

Interfaces **VoIP Interface:**

- » Fax support up to G3 FAX, using T.38
- » Audio Codecs:

> G.726

> T.38

- » Modem support up to V.90, using G.711
- > G.711 (a-law/µ-law) (64 kbps) > G.723.1 (5.3/6.4 kbps)
- > G.729a (8kbps)
- Up to 120 VoIP channels (depending on the model)
- >> SIP (H.323 version 4 for Vega 60G only)

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
 - > Vega 60G: 1 FXO/FXS port per RJ-11
 - > Vega 3000G: Up to 24 FXS ports
 - > Vega 3050G: Up to 50 FXS ports
 - > 600R, 900R or CTR-21 line impedance

Primary Rate ISDN (User configurable NT/TE):

- » T1
- » F1 > Euro-ISDN
- > NI1/NI2
- > AT&T 5ESS
- > ISO OSIG > VN4
- > CAS (RBS) > DMS100
- > ISO QSIG
- > CAS R2MFC > CAS Private Wire (*400G)
- > CAS Private Wire (*400G)

LAN Interface:

- » 2x RJ-45s (Vega 3000G has only 1), 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 (Vega 60G only)

Operations, Maintenance & Billing:

- » HTTP(S) web server
- » RADIUS accounting & login
- » Remote firmware upgrade
- » Auto configuration upgrade

THESUNPHONE SUPPLY Part., Ltd.

- » SNMP V1, V2 & V3
- >> TFTP/FTP support
- » VT100 RS232/Telnet/SSH

Routing & Numbering:

- » Direct Dialing In (DDI)
- » SIP registration to multiple proxies
- » Dial planner sophisticated call routing capabilities, standalone or gatekeeper/proxy integration

» Comfort noise generation

» 802.1p/Q VLAN tagging

» QoS statistics reporting

> Echo cancellation (G.168

up to 128ms tail)

» NAT traversal

Call Quality:

- » Adaptive jitter removal
- » Silence suppression
- » Type of Service (ToS)
- » Differentiated Services (DiffServ)
- Security & Encryption:
- » Management HTTPS, SSH Telnet
- » Configurable user login passwords
- » SIP/TLS and SRTP

Redundancy:

» Hardware failover using port bypass (Vega 400G only)

>> Safety

> EN60950

> IEC60950

> UL60950

> AS/NZS60950

Hardware

Certification:

- > EMC (CLASS B)
 - > EN55022
 - > EN55024
 - > FCC Part 15
 - > AS/NZS3548
- >> TELECOMS (ISDN)
 - > E1: TBR4
 - > T1: FCC Part 68
 - > T1: CS-03
 - > VCCI

Environmental:

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

Dimensions:

» All units are standard 1U high and support rack mount

Power Supply:

- » Internal PSU (Vega 400G & 3050G)
- » External AC/DC Converter (Vega 60G, 100G, 200G & 3000G)



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