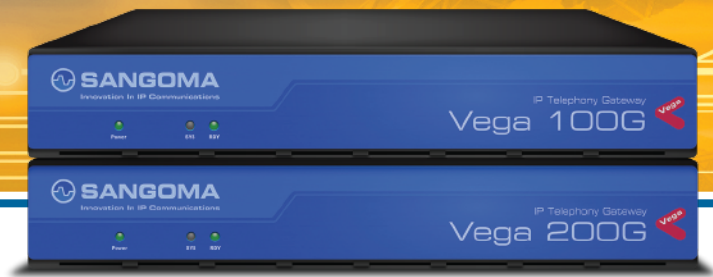# Vega 100G & 200G Digital Gateway

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 100G or 200G Digital Gateway from Sangoma.

The Most Resilient Line of VoIP Gateways in their Class

Qualified for Lync 2013 and Skype for Business 2015.

Lync   **Skype for Business**

Quick Facts

» Supports Dual Gigabit Ethernet Connections
» Branch Office Survivability
» Voice, FAX and Modem Support
» Flexible Call Routing for Fallback & Least Cost Routing
» Emergency PSTN Backup
» Interoperability with a Wide Range of Legacy & IP Equipment
» Optional Annual Support & Software Maintenance Plans

Front

Back

Front

Back

Choose the Right License for Your Business

With low density applications in mind, choose between our Vega 100G for 30 simultaneous calls or our Vega 200G for 60 miscellaneous calls.

Rapid Deployment

Every Vega VoIP gateway features a GUI based Installation wizard for rapid deployment. For high volume deployments the Auto Exec tool is perfect for auto configuration and firmware updates across multiple gateways.

Local Survivability

In the event of a WAN failure, IP phones behind the gateway can continue to call each other, be routed to a backup switch or connect directly to the PSTN.

ADVANCED CAPABILITIES

Open, Non-Proprietary Interfaces

The Vega 100G and 200G support the following signaling schemes:

» ETSI, VN4, ISDN
» NI1, NI2, AT&T 5ESS, DMS100
» ISO QSIG Basic Call and QSIG Feature Transparency
» Channel Associated Signaling (CAS)
» R2 MFC

All Vega gateways support SIP and T.38 Fax.

USE CASES

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

TECHNICAL SPECIFICATIONS

Interfaces

VoIP Interface:

- » SIP
- » Fax support - up to G3 FAX, using T.38
- » Modem support - up to V.90, using G.711
- » VoIP channel capacity:
  - › Vega 100G: 30 calls
  - › Vega 200G: 60 calls

- » Audio Codecs:
  - › G.711 (a-law/µ-law) (64 kbps)
  - › G.723.1 (5.3/6.4 kbps)
  - › G.729a (8kbps)
  - › G.726
  - › T.38

Telephony Interface:

Primary Rate ISDN (User configurable NT/TE):

- » T1
  - › NI1/NI2
  - › AT&T 5ESS
  - › CAS (RBS)
  - › DMS100
  - › ISO QSIG

- » E1
  - › Euro-ISDN
  - › ISO QSIG
  - › VN4
  - › CAS R2MFC

LAN Interface:

- » 2x RJ-45, 1000BaseT / 100BaseTx / 10BaseT, 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

Operations, Maintenance & Billing:

- » HTTP(S) web server
- » SNMP v1, v2c and partial v3 (USM authentication)
- » TFTP/FTP support
- » TR-069

- » RADIUS accounting & login
- » Remote firmware upgrade
- » VT100 – RS232/Telnet/SSH
- » Auto configuration upgrade

Routing & Numbering:

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

Security & Encryption:

- » Management – HTTPS, SSH Telnet
- » Configurable user login passwords
- » SIP/TLS and SRTP

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 128ms tail)

Redundancy/Survivability:

- » Local Survivability - Business Continuity during WAN/SIP outage

Hardware

Certification:

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

- » Safety
  - › EN60950
  - › IEC60950
  - › UL60950
  - › AS/NZS60950

Environmental:

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

LED Indicators:

- » Power
- » ISDN: NT/TE & link up
- » LAN: Speed/activity

Dimensions:

- » Vega 100G/ 200G
  - › 70mm (W) x 155mm (D) x 43mm (H)
  - › Weight: 1.20kgs (2.64lbs)
  - › Rackmount ears supplied: 107mm (2-pieces)

Power Supply:

- » Input: 100-240V~50/60Hz 0.8A
- » Output: 12V = 2.0A
- » Power consumption: 24W max.

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