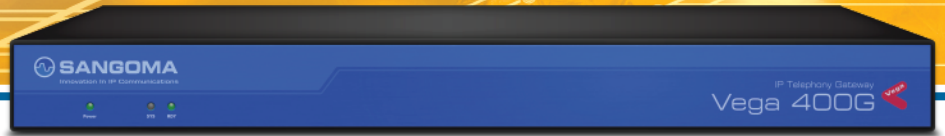# Vega 400G Digital Gateway

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 400G Digital Gateway from Sangoma.

The Most Resilient, High Density Gateway in Its Class

Sangoma's Vega 400G VoIP Gateway is a quad port T1/E1/PRI supporting up to 120 simultaneous calls. The Vega 400G is interoperable with most legacy and VoIP carriers and features exclusive Local Survivability with dedicated failover ports.

For the financial sector, the Vega 400G supports the CAS Private Wire protocol to connect the legacy "always on" telephony equipment of Capital Market Traders with modern IP endpoints, helping them stay connected with their customers.

Qualified for Lync 2013 and Skype for Business 2015.

Quick Facts

- » Supports Up to 120 Simultaneous VoIP Calls
- » 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
- » Ideal for Private Wire or Point-to-point Applications
- » Optional Annual Support & Software Maintenance Plans

Front

Back

Choose the Right License for Your Business

For growing businesses, the Vega400G is the best solution which can be field-upgradable for 30, 60, 90, 120 simultaneous 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 400G supports the following signaling schemes:

- » SIP & T.38 Fax
- » ETSI, VN4, ISDN
- » NI1, NI2, AT&T 5ESS, DMS100
- » ISO QSIG Basic Call and QSIG Feature Transparency
- » CAS R2MFC
- » CAS Private Wire

Hardware Failover

- » In the event of hardware failure, 4 T1/E1 failover ports provide seamless connectivity through to another Vega 100G/200G or 400G allowing your calls to continue.

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:
  › Up to 120 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
  › CAS Private Wire

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

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:

» Hardware failover using port bypass

» 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:

» 437mm (W) x 153mm (D) x 43.5mm (H)

» Weight: 1.97kgs (4.35lbs)

» Rackmount ears supplied

Power Supply:

» Internal PSU 100..240 VAC, 47..63 Hz, 1..0.5 A

» Power consumption: 24W max.

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