Vega 400G
Quad E1/T1 Digital Gateway

FEATURES

- ☑ **Flexible configurations from 30–120 VoIP calls**

- ☑ **Supports dual gigabit Ethernet connections**

- ☑ **Local survivability**

- ☑ **Voice, FAX and modem support**

- ☑ **Flexible call routing for fallback and least cost routing**

- ☑ **Emergency PSTN backup**

- ☑ **Interoperability with a wide range of legacy and IP equipment**

APPLICATIONS

Service Provider:

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

Enterprise:

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

Easily connect digital telephony equipment to IP networks with the all new Vega 400G VoIP gateway.

FIELD-UPGRADEABLE
Choose the right license for your business requirements now: 30, 60, 90 or 120 simultaneous voice calls and expand it later to meet your growing business needs with a quick and easy license upgrade.

CONFIGURATION'S A SNAP
Sangoma's next generation Vega VoIP gateways are the easiest to provision on the market. It's a SNAP with the Sangoma Network Appliance Provisioning tool. Keep the configuration of existing equipment; the Vega 400G delivers flexibility and choice when it comes to call routing. Each T1/E1 interface can be set up to connect to a network or a terminal side – e.g. directly to the PSTN or straight to your PBX.

ONCE CONNECTED, STAY CONNECTED
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. Plus, the Vega 400G comes complete with a pin switching and set of bypass T1/E1 connectors that don't rely on cross-over cables. The next generation 400G is perfect for redundancy or failover scenarios.

OPEN, NON-PROPRIETARY INTERFACES
The Vega 400G supports the following signalling schemes:

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

All Vega gateways support SIP and T.38 Fax. The Vega 400G has proven interoperability with a wide range of existing telecommunications and VoIP equipment.

Ordering Information

SKU	Item Description
VEGA-4NG-030	Vega 400G, 4 T1/E1, failover, 30 VoIP channels, upgradable to 120
VEGA-4NG-060	Vega 400G, 4 T1/E1, failover, 60 VoIP channels, upgradable to 120
VEGA-4NG-090	Vega 400G, 4 T1/E1, failover, 90 VoIP channels, upgradable to 120
VEGA-4NG-120	Vega 400G, 4 T1/E1, failover, 120 VoIP channels
VEGA-4NG-U30	Vega 400G, 30 VoIP channels upgrade
VEGA-4NG-U60	Vega 400G, 60 VoIP channels upgrade
VEGA-4NG-U90	Vega 400G, 90 VoIP channels upgrade

Optional dual AC or DC power available subject to MoQ, please contact your sales representative for more details.

TECHNICAL SPECIFICATIONS

Interfaces:

VOIP INTERFACES:

SIP – *for H.323, please inquire*

Audio codecs:

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

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:

Primary Rate ISDN (User configurable NT/TE):

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

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

LAN INTERFACES:

2 RJ-45s, 1000BaseT/100 BaseTX/10 BaseT, 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

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:

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

ENVIRONMENTAL

0° .. 40°C

0% .. 90% humidity (non-condensing)

INDICATORS

LED:
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:

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

PROGRAM STORAGE:

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

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