Vega 400G
Quad E1/T1 Digital Gateway

FEATURES

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

- ☑ **Supports dual gigabit Ethernet connections**

- ☑ **Branch office 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.

Qualified and tested to connect Lync to PSTN trunks and legacy PBXs

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

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

Sangoma is continuously improving its products, features, design, therefore, specifications in this data sheet may be modified without prior notice or obligation.