Vega 100G
Single E1/T1 Digital Gateway

THE MOST RESILIENT VOIP GATEWAY IN ITS CLASS

The Vega 100 VoIP gateway connects digital telephony equipment to IP networks. Each unit purchased is factory configured with capacity for 30 simultaneous calls. This unit cannot be expanded beyond 30 simultaneous calls.

The available Sangoma Resiliency Enablement Suite (SRES) makes the Vega 100 the most resilient gateway in its class. In the event of a WAN failure, IP phones behind the Vega gateway can continue to call each other, be routed to a backup switch or connected directly to the PSTN. In addition, the use of the Sangoma Network Appliance Provisioning (SNAP) tool makes the Vega 100 the easiest to provision gateway on the market.

Each E1/T1 interface can be independently configured as network side or terminal side. The Vega 100 gateway can therefore be connected to a PBX or the PSTN. This configuration provides:

• No disruption to the configuration of existing equipment
• Flexibility & choice for call routing

OPEN, NON-PROPRIETARY INTERFACES

The Vega 100 gateway supports the following signalling schemes:

• ETSI, VN4, ISDN
• NI1, NI2, AT&T 5ESS, DMS100
• ISO QSIG Basic Call & QSIG feature transparency
• Channel Associated Signalling (CAS)
• R2 MFC

All Vega gateways support SIP and T.38 Fax.

The Vega 100 gateway has proven interoperability with a wide range of existing telecommunications and VoIP equipment.

ORDERING INFORMATION

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<td>VS0164</td>
<td>Vega 100 – Single T1/E1 Digital Gateway</td>
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FEATURES

☑ Fixed configuration of 30 VoIP calls
☑ Supports dual gigabit Ethernet connections
☑ Branch office survivability
☑ Available SRES and SNAP support
☑ 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

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

100 Renfrew Drive, Suite 100, Markham ON L3R 9R6 Canada
☎ +1 905 474 1990 or 1 800 388 2475 (toll free in N. America) ✉ sales@sangoma.com
sangoma.com
Interfaces:

VOIP INTERFACES:
SIP
Audio codecs:
• G.711 (a-law/μ-law) (64 kbps)
• G.723.1 (5.3/6.4 kbps)
• G.726
FAX Support – up to G3 FAX, using T.38
Modem Support – up to V.90, using G.711
Up to 30 VoIP channels

TELEPHONY INTERFACES:
Primary Rate ISDN (User configurable NT/TE):

E1
• Euro-ISDN
• ISO QSIG
• CAS R2MFC

T1
• NI1/NI2
• AT&T 5ESS
• DMS100

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)
EN55022
EN55024
FCC Part 15
AS/NZS3548
EN60950
IEC60950
UL60950
AS/NZS60950

SAFETY
EN60950
IEC60950
UL60950
AS/NZS60950

TELECOMS (ISDN)
E1: TBR4
T1: FCC Part 68
T1: CS-03
VCCI

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

INDICATORS
LED:
Power
ISDN: NT/TE & Link up
LAN: speed / activity

DIMENSIONS:
270mm(W) x 155mm(D) x 43mm(H)

Weight: 1.2kgs
Rackmount ears supplied: 107mm (2-pieces)

EXTERNAL 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.