

## Sangoma Vega 400 Fractional T1/E1 (16 channels) VEGA-VS0111-016



Product Name: Sangoma Vega 400 Fractional T1/E1 (16 channels) VEGA-VS0111-016

Manufacturer: -

Model Number: VEGA-VS0111-016

Please Note: The Sangoma Vega 400 VEGA-VS0111-016 has been discontinued. Please see the replacement product the Sangoma Vega 400G, 4 T1/E1, failover, 30 VoIP channels.

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The Sangoma Vega 400 VoIP media gateway connects digital telephony equipment to IP networks.

The Sangoma Vega 400 16 Channel media gateways are supplied with four E1/T1 interfaces which are always fully available regardless of the license which has been purchased.

The unit is purchased pre&ndash;licensed to suit the initial requirements of the customer for the quantity of concurrent VoIP calls desired through to 16 VoIP channels. Future expansion is easily achieved in the field & can be provisioned by means of further licenses and expansion modules.

Each E1/T1 interface can be independently configured as network side or terminal side. The Vega 400 gateway can therefore be connected to a PBX & the PSTN simultaneously. This configuration provides:

- No disruption to the configuration of existing equipment

- Flexibility & choice for call routing

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

Enhanced Network Proxy (ENP) (Optional)

This option enables continuity of service during WAN/SIP outage and may be configured to operate in a number of ways including:

- Standalone proxy

- IP device survivability

- IP device call routing

- Emergency call routing

- SIP to SIP call routing

Open, Non&ndash;Proprietary Interfaces

The Vega 400 gateway supports the following signalling schemes:

- ETSI ISDN

- NI1, NI2, AT&T 5ESS, DMS100

- ISO QSIG Basic Call & QSIG feature transparency

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### ½ Channel Associated Signalling (CAS)

All VegaStream gateways can support SIP, H.323 & T.38 FAX.

The Vega 400 gateway has proven interoperability with a wide range of existing telecommunications & VoIP equipment.

Sangoma Vega 400 Fractional T1/E1 (16 channels) VEGA-VS0111-016 Technical Specification  
VoIP Interfaces

### ½ SIP

½ H.323 version 4

½ Audio codecs:

½ G.711 (a-law/&micro;-law) (64 kbps)

½ G.729a (8 kbps)

½ G.723.1 (5.3/6.4 kbps)

½ Clearmode

½ GSM (Optional)

½ FAX Support &dash; up to G3 FAX, using T.38

½ Modem Support &dash; up to V.90, using G.711

½ Up to 16 VoIP channels

### Telephony Interfaces

Primary Rate ISDN (User configurable NT/TE):

4 x E1

½ Euro&dash;ISDN

½ ISO QSIG

½ VN4

½ QSIG Feature Transparency (H.323)

½ CAS R2MFC

4 x T1

½ NI1/NI2

½ AT&T 5ESS

½ DMS100

½ CAS (RBS)

½ E&M wink start

½ Loop start

½ Ground start

½ ISO QSIG

½ QSIG Feature Transparency (H.323)

½ 4 x Bypass relays terminating onto 4 x RJ45 for resiliency

### LAN Interfaces

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• 2 RJ45, 10 BaseT/100 BaseTX, full/half duplex

### Identification

• Caller ID presentation

• Caller ID screening allows connections to be accepted only from selected call sources

• SIP Registration & Digest Authentication

• H.323 gatekeeper registration

### 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

### Security & Encryption

• Media & SRTP (optional)

• SIP & TLS (optional)

• Management & HTTPS, SSH Telnet

• Configurable user login passwords

• Enhanced Network Proxy (ENP) (optional)

### 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)

### Certification

EMC (ClassB)

## Sangoma Vega 400 Fractional T1/E1 (16 channels) VEGA-VS0111-016

• EN55022  
• EN55024  
• FCC Part 15  
• AS/NZS3548  
• VCCI

### Safety

• EN60950  
• IEC60950  
• UL60950  
• AS/NZS60950

### Telecoms (ISDN)

• E1: TBR4  
• T1: FCC Part 68  
• T1: CS-03

### Environmental

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

### Indicators

#### LED:

• Power  
• ISDN: NT/TE & Link up  
• LAN: Speed, Activity

### Physical Dimensions

• 437mm (17.2") x 43mm (1.7") x 275mm (10.8") width/height/depth  
• Weight: 6.5kgs  
• Rackmount: brackets supplied 483mm (19") 1U

### Power

• 100..240 VAC, 47..63 Hz, 1..0.5 A  
• -48V DC also available, 1.2A (Max)

### Program Storage

• Code & configuration data are stored in FLASH & executed from RAM.

**Please Enquire**