

## Sangoma Vega 400 3 T1/E1 (90 channels) VEGA-VS0111-090



Product Name: Sangoma Vega 400 3 T1/E1 (90 channels) VEGA-VS0111-090

Manufacturer: -

Model Number: VEGA-VS0111-090

Please Note: The Sangoma Vega 400 3 T1/E1 90 has been discontinued. Please see the replacement product the Sangoma Vega 400G, 4 T1/E1, failover, 90 VoIP channels.

Sangoma Vega 400 3 T1/E1 (90 channels) VEGA-VS0111-090

The Sangoma Vega 400 90 Channel VoIP media gateway connects digital telephony equipment to IP networks.

The Sangoma Vega 400 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 90 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
- Channel Associated Signalling (CAS)

## Sangoma Vega 400 3 T1/E1 (90 channels) VEGA-VS0111-090

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 3 T1/E1 (90 channels) VEGA-VS0111-090 Technical Specification  
VoIP Interfaces

• SIP

• H.323 version 4

• Audio codecs:

• G.711 (a-law/&micro;-law) (64 kbps)

• G.729a (8 kbps)

• G.723.1 (5.3/6.4 kbps)

• Clearmode

• GSM (Optional)

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

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

• Up to 90 VoIP channels

Telephony Interfaces

Primary Rate ISDN (User configurable NT/TE):

4 x E1

• Euro&dash;ISDN

• ISO QSIG

• VN4

• QSIG Feature Transparency (H.323)

• CAS R2MFC

4 x T1

• NI1/NI2

• AT&T 5ESS

• DMS100

• CAS (RBS)

• E&M wink start

• Loop start

• Ground start

• ISO QSIG

• QSIG Feature Transparency (H.323)

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

LAN Interfaces

• 2 RJ&dash;45s, 10 BaseT/100 BaseTX, full/half duplex

Identification

## Sangoma Vega 400 3 T1/E1 (90 channels) VEGA-VS0111-090

- 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)

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

## Sangoma Vega 400 3 T1/E1 (90 channels) VEGA-VS0111-090

### Safety

• EN60950  
• IEC60950  
• UL60950  
• AS/NZS60950

### Telecoms (ISDN)

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

### Environmental

• 0deg; .. 40deg;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**