



## Vega 60G Analog / BRI Gateway

The Vega 60G Media Gateway is designed to simplify the integration of analog phone systems or Basic Rate ISDN (BRI) devices to a VoIP network. It supports up to 8 analog ports, or up to 4 BRI lines. The following gateway configurations are available as standard:

### Analog

- » 4 FXS
- » 8 FXS
- » 4 FXO
- » 8 FXO
- » 4 FXO + 4 FXS

### BRI / ISDN2

- » 2 BRI (4 Calls)
- » 4 BRI (8 Calls)

(PoE, High Precision Clock, 8 BRI and 4 BRI + 4 FXS versions are available for special orders)

Each BRI interface can be independently configured as network side or terminal side. The Vega 60G Media Gateway can, therefore, be used for IP-PBX connectivity to PSTN and SIP trunking offerings. This configuration provides:

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

## Local Survivability: Enhanced Network Proxy

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

- » Standalone proxy
- » IP device survivability
- » IP device call routing
- » Emergency call routing

## Open, Non-Proprietary Interfaces

### The Vega 60G Supports SIP and T.38 Fax

Vega 60G media gateways support ETSI BRI and standard analog loop start signaling. It can be configured for different country requirements, such as tones and line impedance.

All Vega gateways have proven interoperability with a wide range of existing telecommunications and VoIP equipment.

## Quick Facts

- » 2 - 8 Ports, Analog or BRI
- » Flexible Call Routing for Fallback & Least Cost Routing
- » Emergency Backup with Enhanced Network Proxy Feature
- » Interoperability with a Wide Range of Legacy & IP Equipment
- » Voice, FAX & Modem Support
- » Automated Configuration with TR-069
- » Service Provider Applications
  - » Customer Premises Gateway for SIP Trunking
  - » FXS Endpoints for IP Centrex
  - » Survivability for IP Phones Enterprise Applications
- » Enterprise Provider Applications
  - » Enterprise VoIP Networking
  - » PSTN Trunking for IP-PBXs
- » Optional Annual Support & Software Maintenance Plans

## About Sangoma

Sangoma Technologies Corporation, is a trusted leader in delivering globally scalable Voice-Over-IP telephony systems, both on-site and cloud-based.

As the communication landscape evolves and businesses invest in new strategies to provide effective communications, Sangoma Technologies is your trusted partner; delivering Unified Communications solutions for SMBs, Enterprises, OEMs, Carriers, and service providers.

Sangoma's globally scalable offerings include both on-site and cloud-based business communication systems, SIP trunking, IP Phones, Gateways, Session Border Controllers and Telecom Interface Cards. Together, these provide seamless connectivity between traditional infrastructure and new technologies. Businesses can achieve enhanced levels of collaboration, productivity and ROI by partnering with Sangoma.

Founded in 1984, Sangoma Technologies Corporation is publicly traded on the TSX Venture Exchange (TSX VENTURE: STC).

## Become a Sangoma Partner

Provide your customers with outstanding VoIP and Unified Communications quality products that deliver industry-leading value. As an Empowered by Sangoma Partner, you'll get the help you need to grow your business and the incentives you want to make it easy to win sales.

Discover more at:

[Sangoma.com/partner-program](http://Sangoma.com/partner-program)

### VoIP Interface:

- › SIP V1, V2
- › Fax support – up to G3 FAX, T.38
- › Modem support – up to V.90, G.711
- › 8 VoIP channels for FXO / FXS
- › 8 VoIP channels for BRI
- › Audio Codecs:
  - › G.711 (a-law/ $\mu$ -law), G.729a (8kbps), G.723.1 (5.3/6.4 kbps), G.726, T.38

### Telephony Interface:

- › ETSI BRI
  - › 2x or 4x S/T interfaces presented on RJ-45
  - › Point to point or point to multipoint
  - › Each interface configured NT or TE
  - › High precision clock optional
- › Analog
  - › All FXS and FXO ports presented on RJ-11
  - › 600R, 900R or CTR-21 line impedance

### LAN Interface:

- › 1x RJ-45 Gigabit Ethernet 1000BaseT / 100BaseTx / 10BaseT, full / half duplex
- › PoE option available on some models
- › Dual LAN port option available

### Additional Interfaces:

- › 1x USB port for storage
- › 1x Serial console (RJ45) port (Serial cable provided)

### Local Survivability:

- › Standalone proxy
- › IP device survivability
- › IP device call routing
- › Emergency call routing

### Telephony Features:

- › Call waiting
- › Call forward – unconditional, busy, no-answer
- › Call transfer – blind, consultative
- › 3-way conference
- › Do not disturb
- › Message waiting indicator – audible, visual
- › Music on hold
- › Executive barge
- › Caller ID presentation & screening
- › SIP registration & digest authentication

### Operations, Maintenance & Billing:

- › HTTP(S) web server
- › RADIUS accounting & login
- › Remote firmware upgrade
- › Auto configuration upgrade
- › SNMP V1, V2 & V3
- › Syslog
- › TR-069 / TFTP / FTP support
- › VT100 – RS232 / Telnet / SSH
- › Voice readback of IP parameters

### Routing & Numbering:

- › Direct Dialing In (DDI)
- › SIP registration to multiple proxies
- › Dial planner – sophisticated call routing capabilities, standalone or gatekeeper / proxy integration
- › FXS ports support call waiting & call transfer (blind & consultative)
- › NAT traversal

### Security & Encryption:

- › Media – SRTP
- › Management – HTTPS, SSH, Telnet
- › SIP – TLS
- › Configurable user login passwords

### Call Quality:

- › Adaptive jitter removal
- › Silence suppression
- › Type of Service (ToS)
- › Differentiated Services (DiffServ)
- › Comfort noise generation
- › 802.1p / Q VLAN tagging
- › QoS statistics reporting
- › Echo cancellation (G.168 up to 128ms tail)

### Security & Encryption:

- › Media – SRTP
- › Management – HTTPS, SSH, Telnet
- › SIP – TLS
- › Configurable user login passwords

### Certification:

- › EMC (CLASS B)
  - › EN55022, EN55024 & FCC Part 15
- › Safety
  - › EN60950, IEC60950 & UL60950

### Environmental:

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

### FXS Line Length:

- › 200ohm, up to 8km (depending on environment)

### LED Indicators:

- › LAN: Speed/Activity

### Dimensions:

- › 1U: 200 x 127 x 43mm (WxDxH)
- › Weight: .8kgs (1.7lbs)

### Power Supply:

- › External 12V 24W AC/DC adapter