

## Vega 60G

### Analog/BRI Gateway

#### | Datasheet



The Vega 60G VoIP Gateway is designed to integrate analog or Basic Rate ISDN (BRI) devices and systems to a VoIP network. It supports up to 8 analog ports, or up to 4 BRI lines. The following gateway configurations are available:

#### **Analog (model Vega 60Gv2)**

- 2 FXS
- 4 FXS
- 8 FXS
- 4 FXO
- 8 FXO
- 4 FXO + 4 FXS

#### **BRI/ISDN2 (Model Vega 60G)**

- 2 BRI (4 Calls)
- 4 BRI (8 Calls)
- Each interface independently configured as network or terminal

#### **The Vega 60G VoIP Gateway is used for IP-PBX connectivity to PSTN and SIP trunking offerings**

The Vega 60G is an excellent option, providing:

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

#### **Local Survivability: Enhanced Network Proxy (ENP)**

A feature of all Sangoma Vega 60G units, the ENP 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 as well as standard analog loop start signaling and ETSI BRI. They 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.

# Technical Specifications

## Interfaces

### 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/u-law) (64 kbps)
  - G.723.1 (5.3/6.4 kbps)
  - G.729a (8kbps)
  - G.726

### 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 Interface

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

## Features

### 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/DID)
- ◉ 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)

## Compliance

- ◉ EMC (CLASS A)
  - EN 55032:2012
  - EN 55024:2010
  - FCC Part 15
  - ICES-003
- ◉ Safety
  - EN 62368-1:2014
  - IEC 62368-1:2014
  - AS/NZS 62368.1:2018
- ◉ Telecom
  - TBR21 (Vega 60Gv2)
  - TBR3
  - FCC Part 68
  - CS-03 — Part 1

## Environmental

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

## FXS Line Length

- ◉ 2000ohm, 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