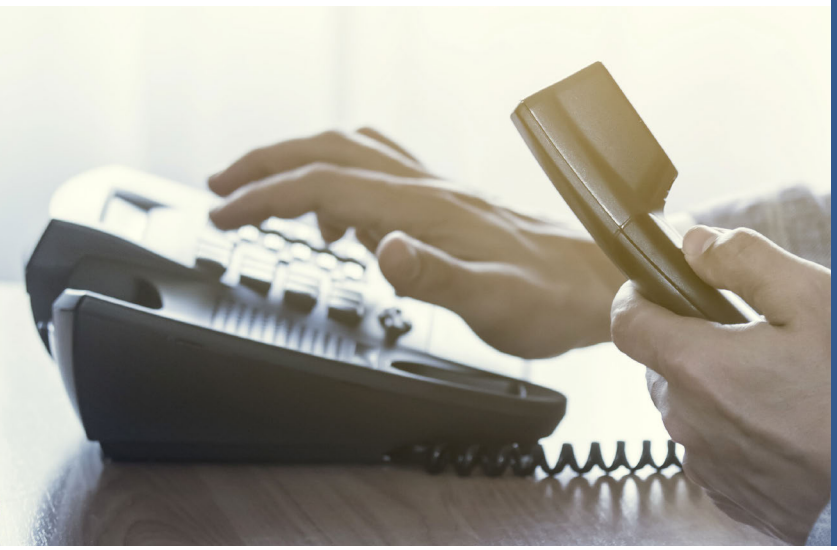


Vega 60G

Analog/BRI Gateway

Datasheet





The Vega 60G VoIP Gateway is designed 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

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

BRI/ISDN2

- 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
  - Up to SuperG3, G711
- 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 con gured 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

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 55032:2015
  - EN 55035:2017
  - FCC Part 15 (FXS/FXO only)
  - ICES-003 (FXS/FXO only)
- Safety
  - EN 62368-1:2014
  - IEC 62368-1:2014
  - AS/NZS 62368.1:2018
- Telecom
  - TBR21 (FXS/FXO only)
  - FCC Part 68 (FXS/FXO only)
  - CS-03 — Part 1 (FXS/FXO only)

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

100 Renfrew Drive, Suite 100, Markham ON L3R 9R6 Canada | +1 (256) 428-6000 or 1 (877) 344 4861 (toll free in N. America)

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