Vega 3050G

The High Density 50 Port Analog Gateway

Datasheet

Take advantage of the newest VoIP technology and achieve wide-ranging benefits, such as reduced telephone charges and transition costs, by seamlessly integrating your existing equipment with a Vega 3050G High Density Analog Gateway. The Vega 3050G is designed to simplify the integration of legacy phone systems to a VoIP network. The Vega 3050G connects a large quantity of analog handsets and devices to an IP network, typically either an Internet Telephony Service Provider (ITSP) or a corporate network. It's the perfect solution for multi-dwelling units, hotels, and hospitals to seamlessly integrate a large density of analog handsets to an IP core, eliminating the cost of re-wiring infrastructure to migrate to IP phones.

√ 50 FXS Ports

√ Voice, FAX and Modem Support

√ Local Survivability

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
- SIP to SIP call routing
- Emergency call routing

√ Flexible Call Routing for Fallback & Least Cost Routing

√ Open, Non-Proprietary Interfaces

The Vega 3050G Supports SIP and T.38 Fax This gateway 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.

√ Interoperable with a Range of Legacy/IP Equipment

√ Optional Support & Software Maintenance Plans

√ Lifeline PSTN Backup

When fitted with the 2 FXO port expansion module, under power failure conditions they provide a hard-wired bypass to the FXS ports allowing PSTN calls.

Use Cases

Service Provider Applications

- Connect analog phones to hosted telephony platforms
- High-density PSTN gateway
- Survivability for IP phones in case of wide area network (WAN) disruptions

Enterprise Applications

- Enterprise VoIP Networking
- Enterprise IP telephony gateway
- Compatibility with legacy phones, IP-PBX, and UC platforms

Density

With up to 50 FXS ports, and 2 FXO ports (with optional expansion board) in a chassis that is only 1U-high and half a rack deep, these gateways provide exceptional density.

Technical Specifications

Interfaces

VoIP Interface

- SIP
- Fax support — up to G3 FAX, using T.38
- Modem support — up to V.90, using G.711
- Up to 50 VoIP Channels
- Audio Codecs:
  - G.711 (a-law/u-law) (64 kbps)
  - G.723.1 (5.3/6.4 kbps)
  - G.729a (8kbps)
  - G.726
  - T.38

Telephony Interface

- 2x 25 FXS ports on an RJ-21 connector
- 2x RJ-11 FXO ports on optional FXO expansion board
- 600R, 900R or CTR-21 line impedance

LAN Interface

- 1x RJ-45 Gigabit Ethernet
- 1000BaseT/100BaseTx/10BaseT, full/half duplex

USB Interface

- 1x USB 2.0 for extra storage

Features

Identification

- 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 — UK, DTMF, Bellcore GR30, ETSI
- Caller ID 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
- TR-069
- Syslog
- 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

Security & Encryption *Optional

- *Media — SRTP/*SIP — TLS
- Management — HTTPS, SSH Telnet
- Configurable user login passwords
- Local Survivability

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 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

Environmental

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

FXS Line Length

- 8 km at 1 REN, depending on environment

LED Indicators

- System: Power/System Ready/Activity
- LAN: Speed/Activity

Dimensions

- 1U: 440mm (W) x 250mm (D) x 45mm (H)
- Weight: 2.7kgs (6lbs)
- Rackmount brackets supplied: 483mm

Power Supply

- Internal PSU 100..240 VAC, 47..63 Hz, 1..0.5 A

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

Sangoma.com