



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.

Use Cases

Service Provider Applications

- › Connect analog phones to hosted telephony platforms
- › High-density PSTN gateway

Enterprise Applications

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



Key Features

- › 50 FXS ports
- › Voice, FAX and modem support
- › Flexible call routing for fallback & least cost routing
- › Interoperable with a range of legacy/IP equipment
- › Optional Support & Software Maintenance Plans

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

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.

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)
 - T.38

Telephony Interface

- › 2x 25 FXS ports on an RJ-21 connector
- › 600R, 900R or CTR-21 line impedance

LAN Interface

- › 2x RJ-45 Gigabit Ethernet
- › 1000BaseT/100BaseTx/10BaseT, full/half duplex

Features

Telephony Features

- › Call waiting
- › Call forward — unconditional, busy, no-answer
- › Call transfer — blind, consultative
- › 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

Local Survivability

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

Call Routing & Numbering

- › Direct Dialing In (DDI/DID)
- › SIP registration to multiple proxies
- › Dial planner — sophisticated call routing capabilities, standalone or gatekeeper/proxy integration

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)

Security & Encryption

- › Media - SRTP
- › SIP - TLS
- › Management - HTTPS, SSH
- › TLS 1.2
- › Configurable user login passwords
- › RADIUS user authentication
- › Device certificate upload

Operations, Maintenance & Billing

- › HTTPS Configuration Interface
- › RADIUS accounting & login
- › Remote firmware upgrade
- › Auto configuration upgrade
- › SNMP V1, V2 & V3
- › TR-069
- › Syslog
- › TFTP/FTP support
- › VT100 CLI on RS232 and SSH

Compliance

Safety and compliance information is available at <http://www.sangoma.com/compliance/>

Physical Features

Environmental

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

FXS Line Length

- › Up to 8 km at 1 REN (depending on environment)

LED Indicators

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

Dimensions

- › 1U: 440mm (W) x 231mm (D) x 45mm (H)
- › Weight: 2.7kgs (6lbs)
- › Rackmount brackets supplied: 483mm

Power Supply

- › Internal PSU 100..240 VAC, 47..63 Hz, 0.85..0.36 A