Vega 100G, 200G, and 400G

The Most Resilient Line of VoIP Gateways in their Class

| 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 100G, 200G, or 400G Digital Gateway.

- ◉ Supports Dual Gigabit Ethernet Connections
- ◉ Branch Office Survivability
- ◉ Voice, FAX, and Modem Support
- ◉ Flexible Call Routing for Fallback & Least Cost Routing

- ◉ Emergency PSTN Backup
- ◉ Interoperability with a Wide Range of Legacy & IP Equipment
- ◉ Available Annual Support & Software Maintenance Plans

√ Choose the Right License for Your Business

With low density applications in mind, choose between our Vega 100G for 30 simultaneous calls or our Vega 200G for 60 simultaneous calls. For growing businesses, the Vega 400G is the best solution and can be field-upgradable from 30 to 60, 90, or 120 simultaneous calls.

√ Rapid Deployment

Every Vega VoIP gateway features a GUI based Installation wizard for rapid deployment. For high volume deployments the Auto Exec tool is perfect for auto configuration and firmware updates across multiple gateways.

√ Local Survivability

In the event of a WAN failure, IP phones behind the gateway can continue to call each other, be routed to a backup switch or connect directly to the PSTN.

√ Open, Non-Proprietary Interfaces

The Vega 100G, 200G and 400G support the following signalling schemes: ETSI, VN4, ISDN, NI1, NI2, AT&T 5ESS, DMS100, ISO QSIG Basic Call and QSIG Feature Transparency, Channel Associated Signaling (CAS), R2 MFC. All Vega gateways support SIP and T.38 Fax.

√ Hardware Failover

4x T1/E1 failover ports used during hardware failure scenaros (exclusive to the Vega 400G)

√ Service Provider Applications
- ◉ Customer premises gateway for SIP trunking
- ◉ Low-density PSTN gateway
- ◉ Survivability for IP phones Enterprise Applications
- ◉ Enterprise VoIP networking
- ◉ PSTN trunking for IP-PBXs
- ◉ Enterprise IP telephony gateway

Technical Specifications

Interfaces

VoIP Interface

- SIP
- Fax support — up to G3 FAX, using T.38
- Modem support — up to V.90, using G.711
- VoIP channel capacity:
  - Vega100G:30
  - Vega200G:60
  - Vega 400G up to 120
- 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

Primary Rate ISDN (User configurable NT/TE):

- T1
  - NI1/NI2
  - AT&T 5ESS
  - CAS (RBS)
  - DMS100
  - ISO QSIG
  - CAS Private Wire (*400G)
- E1
  - Euro-ISDN
  - ISO QSIG
  - VN4
  - CAS R2MFC
  - CAS Private Wire (*400G)

LAN Interface

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

Features

Identification

- Caller ID presentation
- Caller ID screening allows connections to be accepted only from selected call sources
- SIP registration & digest authentication

Operations, Maintenance & Billing

- HTTP(S) web server
- SNMP v1, v2c and partial v3 (USM authentication)
- TFTP/FTP support
- TR-069
- RADIUS accounting & login
- Remote firmware upgrade
- VT100 — RS232/Telnet/SSH
- Auto configuration upgrade

Routing & Numbering

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

Security & Encryption

- Management — HTTPS, SSH Telnet
- Configurable user login passwords
- SIP/TLS and SRTP

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)

Redundancy/Survivability

- Hardware failover using port bypass Vega 400G
- Local Survivability — Business Continuity during WAN/SIP outage

Compliance

- EMC (CLASS A)
  - EN 55032:2012
  - EN 55024:2010
  - FCC Part 15
  - ICES-003
- Safety
  - EN 62368-1:2014
  - IEC 62368-1:2014
  - UL 60950-1 (Vega 400G)
  - CSA 60950-1 (Vega 400G)
  - AS/NZS 62368.1:2018
- Telecom
  - TBR4
  - FCC Part 68
  - CS-03 — Part VI

Environmental

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

LED Indicators

- Power
- ISDN: NT/TE & link up
- LAN: Speed/activity

Dimensions

- Vega 100G/200G
  - 70mm (W) x 155mm (D) x 43mm (H)
  - Weight: 1.20kgs (2.64lbs)
  - Rackmount ears supplied: 107mm (2-pieces)
- Vega 400G
  - 437mm (W) x 153mm (D) x 43.5mm (H)
  - Weight: 1.97kgs (4.35lbs)
  - Rackmount ears supplied

Power Supply

- Vega 100G/200G
  - External 12V (24W) AC/DC adapter
- Vega 400G
  - Internal PSU 100..240 VAC, 47..63 Hz, 1..0.5 A
- Power consumption: 24W max.

Sangoma