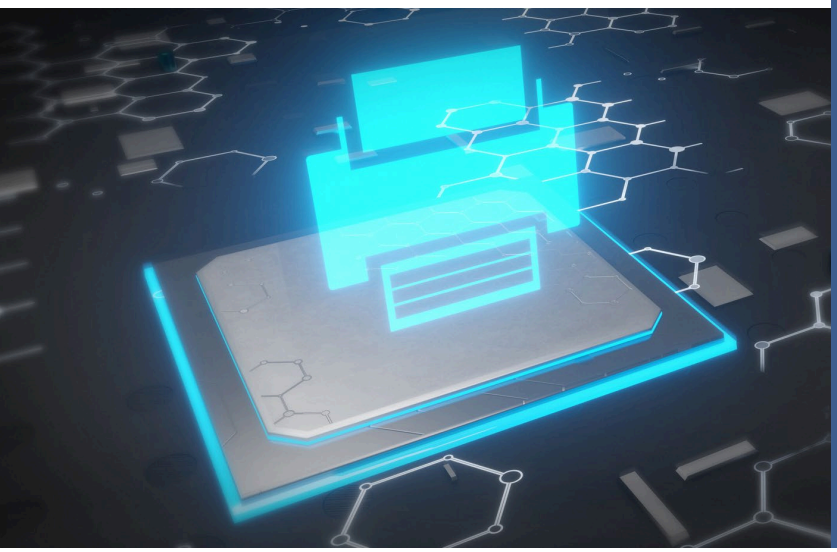


The Vega 400GF

Provides High Density Fax over an IP Gateway

Datasheet

Sangoma's Vega 400GF gateway provides data centers and service providers a rich set of Fax-over-IP (FoIP) features and functions suitable for high-speed, high-density fax production, saving you money on toll charges. The Vega 400GF connects your FoIP application to T1/E1 trunks to enable TDM connectivity when SIP trunks are not available, delivering highly reliable real-time faxing over the T.38 protocol. It comes with 4 T1/E1 ports for up to 120 licensed channels, and is optimized for high-density faxing. Since the T.38 protocol retains the standard T.30 fax data stream, the Vega 400GF can be used with legacy T.30-based devices and with newer T.38-based solutions.

**An example of fax software would be the Dialogic® Brooktrou® SR140*

Quick facts 400GF

Base Unit includes:

- 4 T1/E1 Ports & License for 30 Simultaneous Calls, Expandable to 120 Calls
- Supports V.8 Fast Handshaking & Advanced Compression Cutting Call Setup Time
- Emergency PSTN Backup
- Compatible with Dialogic Brooktrout SR140 Fax Software & Your Existing FoIP Application
- Auto-Provisioning Support Using the PBXact/FreePBX Vega Gateway Module
- Interoperability with a Wide Range of Legacy & IP Equipment
- Available Annual Support & Software Maintenance Plans

Choose the Right License for Your Business

For growing businesses, the Vega 400GF can be field-upgradable from 30 to, 60, 90, or 120 simultaneous calls. Each call may be used for either fax or voice.

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.

Enable FoIP when T.38 is Not Supported

While more susceptible to IP network issues, such as packet loss or jitter, G.711 fax pass-through provides an option for enabling FoIP when T.38 is not supported.

Error Correction Mode

The Vega 400GF has built-in error correction mode (ECM) which checks each fax for errors and requests a re-transmission from your FoIP software when required.

Supported Protocols

The Vega 400GF supports the following: SIP & T.38 Fax, V.34 Fax Standard (G.711 Pass-through), Error Correction Mode (ECM), TLS and SRTP.

Technical Specifications

Interfaces

FoIP & VoIP Interface

- SIP V.2
- Fax support: up to G3 FAX, using T.38
- Modem support: up to V.90, using G.711
- FoIP/VoIP channel capacity:
  - Up to 120 faxes/calls
- 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

4x T1/E1 / PRI (Con gurable NT/TE)

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

LAN Interface

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

Features

Fax Standards

- T.38/T.30
- V.34 (G.711 pass-through)
- V.8
- V.33, V.17, V.29 & V.27ter up to 14400 bps

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/DID)
- 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
- Local Survivability — Business Continuity during WAN/SIP outage

Hardware

High Precision

- Stratum III clock

Compliance

- EMC (CLASSA)
  - EN 55032:2012
  - EN 55024:2010
  - FCC Part 15
  - ICES-003
- Safety
  - EN 62368-1:2014
  - IEC 62368-1:2014
  - UL 60950-1
  - CSA 60950-1
  - 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

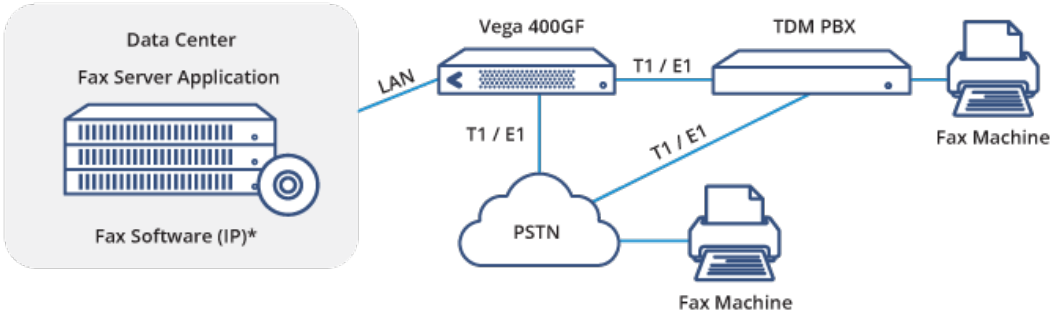
- Power
- ISDN: Link up
- LAN: Speed/activity

Dimensions

- 437mm (W) x 153mm (D) x 43.5mm (H)
- Weight: 1.97kgs (4.35lbs)
- Rackmount ears supplied

Power Supply

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



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