

# Vega 25

## 1 port FXS, 1 port FXO

### Home VoIP Gateway



Let's talk Voice over IP. Let's talk VegaStream. Our range of dedicated VoIP gateways is helping to drive down the total cost of business communications. VegaStream's technical know-how and non-stop support mean that VoIP simply works, first time, every time. We collaborate with service providers, technology and channel partners to enable easy integration with existing systems. VegaStream gives your business a voice.



Typical Vega 25  
Gateway Applications

Service Provider Applications:

> Residential VoIP Gateway

Enterprise Applications:

> Small Office / Home Office VoIP  
Gateway

For further details on these  
applications, please refer to  
[www.vegastream.com](http://www.vegastream.com)

The Vega 25 VoIP Gateway connects standard analog telephones to IP networks and is designed for residential deployment. With the Vega 25 VoIP gateway, service providers and enterprises can offer VoIP telephony services to the home user over a residential broadband connection.

The Vega 25 supports 1 analog FXS port for connection to an existing analog telephone, fax machine or other analog terminal, 1 analog FXO port for connection to PBX or central office exchange line and an Ethernet interface for connection to a home or office Local Area Network.

The Vega 25 VoIP Gateway supports key enterprise and key service provider requirements for installation, management, telephony features and security.

#### Ease of installation and large-scale manageability

The Vega 25 can be easily installed by the home user and remotely provisioned, configured and managed by the service provider or enterprise. Software and configuration can be managed securely and remotely.

The Vega 25 can be configured for individual country requirements such as analog line impedance and Calling Line ID standards.

#### Telephony Features

The Vega 25 offers the home user a full range of telephony features including call waiting, caller ID, call transfer, conferencing and visual and audible message waiting indicator. Enterprise customers can deliver their PBX feature set to home workers and service providers can gather additional revenue from value added features.

#### Security

The Vega 25 supports secure encryption for communication and provisioning to ensure service provider and enterprise communication and integrity is not compromised.

The combination of FXS and FXO ports provides fail-safe operation if a local power failure occurs.

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## Interfaces

### VoIP Protocols

- > SIP
- > Audio codecs:
  - G.723.1 (5.3/6.4 kbps)
  - G.729a (8 kbps)
  - G.726 (16/24/32/40 kbps)
  - G.711 (a-law/ $\mu$ -law) (64 kbps)

### Telephony Interface

- > One FXS port and one FXO port for connection to analog central office exchange line
- > 8 configurable impedance settings including N.America 600ohms and European CTR21

### LAN Interface

1 Ethernet 10baseT interface (RJ-45 connector)

## Features

### User Features

- > Flash Hook initiated features (Call Waiting, Cancel Call Waiting, Call Forwarding: No Answer / Busy / All, Do Not Disturb, Call Transfer, Three-way conference calling, Call Return, Call Back on Busy, Speed Dialing)
- > Message Waiting Indicator tones
- > Visual Message Waiting Indicator
- > Caller ID generation (Name and number) – Bellcore, DTMF, ETSI
- > Caller ID blocking
- > Call Waiting Caller ID with Name/ Number
- > Music On Hold Client
- > Streaming Audio Server
- > Flexible dial plan and call routing (Call blocking with toll restriction, Distinctive Ringing, Selective / Anonymous Call Rejection)
- > Off-hook warning tone
- > Delayed Disconnect
- > Hotline and warm line

### Provisioning, Administration and Maintenance

- > Web browser administration and configuration using integral web server
- > Telephony key pad configuration with interactive voice prompts
- > Automated provisioning and upgrade using https, http and tftp
- > Asynchronous notification of upgrade availability
- > Non-intrusive, in-service upgrades
- > Report generation and event logging
- > Log and debug records

### Call Quality

- > Differentiated Services (Diffserv)
- > Type of Service (ToS)
- > Fax Tone Detection Pass-through
- > In-band and Out-of-band DTMF (RFC2833)
- > Adaptive jitter buffer
- > Echo cancellation (G.165/G.168)
- > Voice Activity Detection with Silence Suppression

## Security

- > SIP Proxy Redundancy
- > Re-registration with Primary SIP Proxy Server
- > SIP Support in Network Address Translation Records (including STUN)
- > Encrypted Calling by pre-standard implementation of Secure RTP
- > Password Protected Admin and User Access
- > Provisioning, Configuration and Authentication
  - > https with factory installed client certificate
  - > http digest encrypted authentication via MD5 (RFC 1321)
  - > Up to 256-bit AES or RC4 Encryption

## Hardware

### Certification

FCC Part 15 Class B  
CE Mark

### Environmental

5° to 45°C  
10 to 90% humidity (non-condensing)

### Display

LED:

- > LAN activity
- > Gateway status

### Physical Dimensions

- > 110mm (7.2") x 93mm (3.6") x 35mm (1.38")  
width/height/depth
- > Weight: 0.49kgs

### Power

- > DC input voltage +5 VDC at 2A max  
5 watts power consumption
- > Power Adapter 100-240v, 50-60Hz.(26-34VA) AC Input

Vega25/Draft1

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