

# Vega 5000

## 24 / 48 Ports Analog



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 5000 Analog Gateway Applications

#### Service Provider Application:

- > Customer premises gateway

#### Enterprise Applications:

- > Enterprise VoIP networking
- > Enterprise IP telephony gateway

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

The Vega 5000 analog gateway is designed to connect analog phone systems to IP networks. The Vega 5000 connects standard analog handsets to an IP network, typically either an Internet Telephony Service Provider (ITSP) or a corporate network, while providing two additional network-facing analog ports for connection to telephone lines or an analog PBX.

Vega 5000 analog gateways are available with 24 or 48 FXS ports (for connection to standard analog telephones) and 2 FXO ports (for connection to analog telephone lines or a PBX).

#### Open, Non-Proprietary Interfaces

All VegaStream gateways support SIP, H.323 and T.38 fax.

The gateway can be configured for different country requirements, such as tones and line impedance.

All of the Vega gateways have proven interoperability with a wide range of existing telecommunications and VoIP equipment.

#### Lifeline PSTN Backup

When powered the Vega can route calls to or from the two FXO ports. Under power failure conditions the two FXO ports provide a hard-wired bypass to two FXS ports allowing PSTN calls to be made even under this failure condition.

#### Density

With up to 48 FXS ports in a chassis that is only 1U high and half a rack deep, these gateways provide exceptional density for deployment

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### Interfaces

#### VoIP Protocols

- > SIP
- > H.323 version 4
- > Audio codecs:
  - G.711 (a-law/ $\mu$ -law) (64 kbps)
  - G.729a (8kbps)
  - G.723.1 (5.3/6.4 kbps)
- > Fax Support – up to G3 fax, using T.38
- > Modem Support – up to V.90, using G.711
- > 24 or 48 VoIP channels

#### Telephony Interfaces

- > 24 ports on one RJ21 connector or 48 ports on two RJ21 connectors
- > 2 FXO ports on RJ45 connectors
- > 600R, 900R or CTR-21 line impedance

#### LAN Interfaces

- > 2 RJ45s, 10 BaseT / 100 BaseTX, full or half duplex

### Features

#### Identification

- > Caller ID presentation
- > Caller ID screening allows connections to be accepted only from selected call sources
- > H.323 gatekeeper registration
- > SIP Registration and Digest Authentication

#### Operation, Maintenance and Billing

- > HTTP web server
- > Radius Accounting
- > Remote firmware upgrade:
  - > Auto code upgrade
  - > Auto configuration upgrade
- > SNMP
- > TFTP/FTP support
- > VT100 – RS232/Telnet

#### Routing and Numbering

- > Dial Planner – sophisticated call routing capabilities, standalone or gatekeeper/proxy integration
- > Direct Dialing In (DDI)
- > SIP registration to multiple proxies
- > FXS ports support Call Waiting and Call transfer (blind and consultative)
- > NAT traversal

#### 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)

### Hardware

#### Certification

EMC (Class A)	Safety	Telecoms
EN55022	EN60950	TBR21
EN55024	IEC60950	FCC Part 68
FCC Part 15	UL60950	CS-03
AS/NZS3548	AS/NZS60950	
VCCI		

#### Environmental

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

#### Indicators

- LED:
  - > Power
  - > Vega ready
  - > Lifeline, FXS calls active
  - > LAN: speed / activity

#### Physical Dimensions

- > 437mm (17.2") x 43mm (1.7") x 275mm (10.8") width/height/depth
- > Industrial rackmount: 483mm (19"), 1U
- > Weight: 6.5kgs

#### Additional Accessories

- > 1 x RJ21 to punch down Connector
- > 1 x RJ21 to RJ45 cable (1.5m)

#### Power

- > 100..240 VAC, 47..63 Hz, 1..0.5 A for 24 ports or 100..240 VAC, 47..63 Hz, 2..1 A for 48 ports

#### Program Storage

- > Code and configuration data are stored in FLASH and executed from RAM