

Vega 50 6x4

Up to 24 Ports



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 50 6x4 Gateway Applications

Service Provider Applications:

- > Customer premises gateway
- > PSTN gateway

Enterprise Applications:

- > Enterprise VoIP networking
- > Enterprise IP telephony gateway

For further details on these applications, please refer to www.vegastream.com

The Vega 50 6x4 gateway connects a range of legacy telephony equipment, including PBXs, ISDN telephones, the ISDN, analog phones and the PSTN to IP networks. The Vega 50 6x4 supports up to 24 analog ports, up to 16 basic rate ISDN channels on 8 interfaces or a mixture of port types and capacities. The Vega 50 6x4 is available factory configured in a number of different configurations, other configurations are available to special order.

The following gateway configurations are available as standard:

- > 4 FXS + 2 FXO
- > 8 FXS + 2 FXO
- > 24 FXS + 2 FXO
- > 8 FXO
- > 24 FXO
- > 4 BRI interfaces (8 channels)
- > 8 BRI interfaces (16 channels)
- > 4 BRI interfaces (8 channels) + 4 FXO

Each BRI interface can be independently configured as network side or terminal side. The Vega 50 6x4 gateway can, therefore, be connected to a PBX and the ISDN simultaneously. This configuration provides:

- > No disruption to the configuration of existing equipment
- > Flexibility and choice for call routing

Analog interfaces on the Vega 50 6x4 can be configured as 600R, 900R or CTR-21

Open, Non-Proprietary Interfaces

The Vega 50 6x4 BRI interfaces supports ETSI BRI. The Vega 50 6x4, analog interfaces support standard loop start signalling. The Vega 50 6x4 gateways have proven interoperability with a wide range of existing telecommunications and VoIP equipment.

All VegaStream gateways can support SIP, H.323 and T.38 fax. The gateway can be configured for different country requirements, such as tones and line impedance.

Lifeline PSTN Backup

Vega 50 6x4 variants equipped with FXS ports are also fitted with two FXO ports. When powered the Vega can route calls to or from these 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.

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Interfaces

VoIP Protocols

- > SIP
- > H.323 version 4
- > Audio codecs:
 - G.711 (a-law/ μ -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
- > Up to 26 VoIP channels

Telephony Interfaces

- ETSI BRI
- > 4 or 8 BRI interfaces (8 or 16 BRI channels)
- > Powered S/T interfaces
- > Each interface can be point to point or point to multipoint
- > Each Interface can be configured NT or TE
- > A 4 BRI interface Vega 50 6x4 may be combined with up to 16 analog interfaces
- > An 8 BRI interface Vega 50 6x4 may be combined with up to 8 analog interfaces

Analog

- > Up to 24 FXS and / or FXO interfaces
- > FXS and FXO interfaces are in 4 port modules
- > FXS and FXO modules may be used in the same Vega
- > 600R, 900R or CTR-21 line impedance
- > 2 lifeline FXO ports are supplied in addition if FXS modules are fitted.

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

Operations, 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 (FXO)
EN55024	IEC60950	FCC Part 68
FCC Part 15	UL60950	CS-03
AS/NZS3548	AS/NZS60950	TBR3 (BRI)
VCCI		

Environmental

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

Indicators

LED:

- > Power
- > Vega ready
- > Lifeline, FXS, FXO, BRI calls active
- > BRI link up
- > 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

Accessories

- > 1 x RJ21 to punch down Connector
- > 1 x RG21 to RJ45 cable (1.5m)

Power

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

Program Storage

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

Vega50-6x4/v7