

Vega 50 FXS



Vega 50 FXS features

- Desktop or 19" rack mount
- 2 models,
 - 8 FXS ports or
 - 8 FXS ports plus 2 FXO ports
- Loop start signaling
- Line current reversal generation (answer and disconnect indication)
- Line current disconnect generation (disconnect indication) on 8 + 2 version
- FSK Caller ID (sdmf and mdmf)
- First 2 ports of FXS connect to FXO ports when unit is powered down
- FXO ports have configurable line impedance (8 + 2 version only)

Vega general product features

- SIP or H.323 supported (choice by firmware download)
- Web browser configuration
- 10 base T / 100 base TX LAN
- QOS packet marking
 - layer 3 Type Of Service
 - layer 2 802.1 p/q
- Call detail records available
 - from Telnet and Serial interfaces
 - via Radius accounting records
- Built in dial planner
- SNMP
- SIP supports Auto-load config and firmware

Vega VoIP features

- Echo cancellation
 - G.168 – up to 32ms (R6 up to 128ms)
- Codecs / companders
 - G.711Alaw64k
 - G711ulaw64k
 - G729AnnexA (/b)
 - G.723.1
 - T.38
- Silence suppression configurable per codec

Environmental

- Operating temperature: 0°C to +40°C
- Storage temperature: -20°C to +70°C
- Humidity: 0 to 90% (non condensing)

Power

- 100 - 260 Vac, 47 - 63 Hz, 1A - 0.5A
- Fuse rating: 2A - type T (e.g. Bussmann S505)

Physical dimensions

- 440mm (17.4") x 63mm (2.5") x 330mm (13") width / height / depth
- Industrial rack mount: 483mm (19"), 1.5U
- Weight: 7.5kg

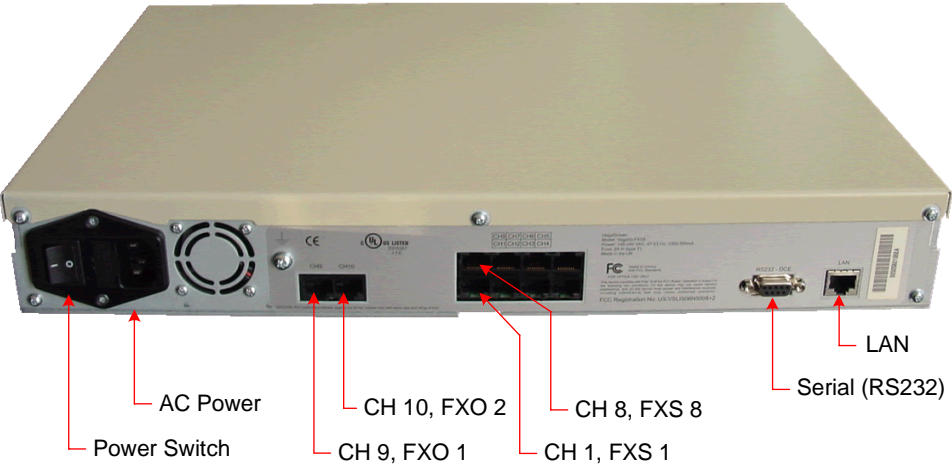
Front view of Vega 50 FXS gateway



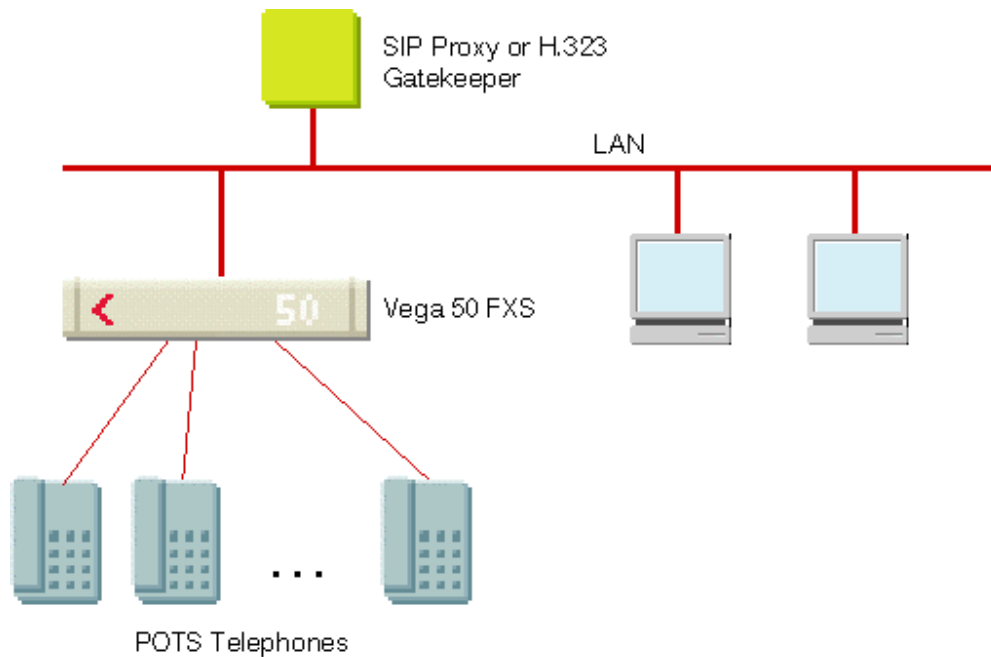
Rear view of 8 port gateway



Rear view of 8 FXS + 2 FXO port gateway



Typical FXS configuration



Approvals

- Approved for North America
Safety – UL60950
EMC – FCC part 15 class A
- Approved for European CE Countries
Safety – EN60950, IEC60950
EMC – EN55022 class A (CISPR22), EN55024(CISPR24)
- Approved for Australia / New Zealand
Safety – AS/NZ60950
EMC – AS/NZS 3548 Class A

Tech Spec

- Physical FXS ports
Drives up to REN 3.0
Drive capability
–1km @ REN 3
–2.5km @ REN 2
–3km @ REN1
Line power supplied
- Signalling FXS ports
Loop start
DTMF dialling detection

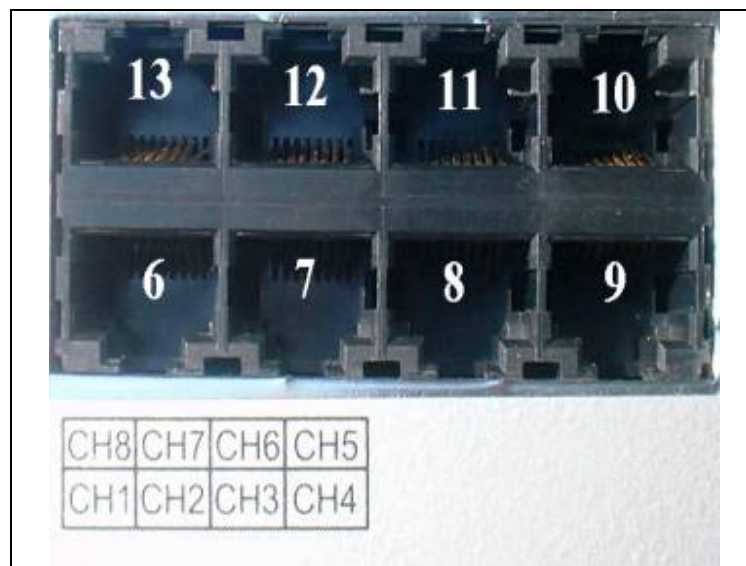
- Physical FXO ports
600 R / CTR21 / 900R configurable
REN 0.5
- Signalling FXO ports
Loop start
DTMF outdial
Loop current disconnect clear-down
Line current reversal

Vega pinouts

The pinout of the Vega 50 is as follows:

Vega 50
4 (Ring)
5 (Tip)

The order of the telephone interfaces - looking from the rear of the Vega - is bottom left to top left anticlockwise, as shown below:



Cables with RJ45 sockets are used to connect the Vega to a Ethernet LAN hub. A standard 1:1 cable is required.

Ethernet
1 (Tx+)
2 (Tx-)
3 (Rx+)
6 (Rx-)

To Make LAN cables for Vegas use the following parts (or similar):

Component	Part number	Description	Manufacturer
Cable	Belden 9804	Cat 5 S-FTP 2 Twisted Pair Cable (UL2960)	Belden www.belden.com
RJ45 connector	Stewart 360808A217	RJ45 Screened plug	Stewart www.stewartconnector.com
RJ45 boot	Stewart 361010SRX225A256	RJ45 UL approved yellow strain relief boot	Stewart www.stewartconnector.com
Ferrite	Stewart 28B0562-200	EMI suppression ferrite core (solid, loose)	Stewart www.stewartconnector.com
Heat-shrink sleeve	TAKBRO CPA-100-13/4	Adhesive heatshrink (13mm od, 3:1) black UL224, MIL-1-23053	TAKBRO www.takbro.co.uk

Note:

1. When connecting the cable to the RJ45 connector ensure that there is 360° contact between the cable's braided screen and the RJ45 screen.
2. EMI suppression ferrite is to be fitted within 2mm +/- 2mm of the RJ45 connector boot – on the end that connects to the Vega.