

# Vega 100 E1/T1

## 23-60 Channels Digital



VegaStream delivers to customers the cost savings and productivity benefits of Voice over IP (VoIP) through its portfolio of dedicated VoIP gateways. VegaStream works in close co-operation with service providers, technology partners and channel partners to deliver complete solutions to businesses. Combining its technical expertise with round-the-clock customer support, VegaStream ensures reliable and seamless integration with the overall VoIP solution.

### Typical Vega 100 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 the website.

The Vega 100 digital gateway connects digital telephony equipment to IP networks. All Vega 100 gateways provide two E1 or T1 interfaces. Each interface can be independently configured as network or terminal-facing.

The Vega 100 gateways are available in four variants:

- > 23 VoIP channels (24 with Robbed-Bit Signaling), with 2 T1 interfaces
- > 46 VoIP channels (48 with Robbed-Bit Signaling), with 2 T1 interfaces
- > 30 VoIP channels with 2 E1 interfaces
- > 60 VoIP channels with 2 E1 interfaces

The Vega 100 gateway can, therefore, be connected to a PBX and the PSTN simultaneously. This configuration provides:

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

### Open, Non-Proprietary Interfaces

The Vega 100 gateway supports the following signaling schemes:

- > ETSI ISDN
- > NI1, NI2, AT&T 5ESS, DMS100
- > ISO QSIG Basic Call and QSIG feature transparency
- > Channel Associated Signaling (CAS) on the T1 product

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

The Vega 100 gateway has proven interoperability with a wide range of existing telecommunications and VoIP equipment.

# Vega 100 E1/T1

## 23-60 Channels Digital

Software release 6

### Interfaces

#### VoIP Protocols

- > H.323 version 4
- > SIP
- > Audio codecs:
  - G.723.1 (5.3/6.4 kbps)
  - G.729a (8 kbps)
  - G.711 (a-law/ $\mu$ -law) (64 kbps)
- > Up to 60 VoIP channels

#### Telephony Interface

Primary Rate ISDN (User configurable NT/TE):

- > 2 x E1
  - Euro-ISDN
  - ISO QSIG
  - QSIG Feature Transparency (H.323)
- > 2 x T1
  - NI1/NI2
  - AT&T 5ESS
  - DMS100
  - CAS (RBS)
  - E&M wink start
  - Loop start
  - Ground start
  - ISO QSIG
  - QSIG Feature Transparency (H.323)
- > Fax Support – up to G3 fax, using T.38
- > Modem Support – up to V.90, using G.711

#### LAN Interface

10 BaseT, 100 BaseTX, full or half duplex

### Features

#### Identification

- > Caller ID presentation
- > Caller ID screening guarantees connection only from authenticated call sources
- > H.323 gatekeeper registration
- > SIP Registration and Digest Authentication

#### Billing, Operations and Maintenance

- > HTTP web server – with access to user guide
- > Radius Accounting
- > Remote firmware upgrade:
  - > Auto code upgrade
  - > Auto configuration upgrade
- > SNMP MIB 1&2
- > TFTP/FTP support
- > VT100 – RS232/Telnet

#### Routing and Numbering

- > Dial Planner – sophisticated call routing capabilities, standalone or gatekeeper/proxy integration
- > Direct Dialing In (DDI)

#### 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)
- > NAT Traversal

### Hardware

#### Certification

EMC (ClassB)	Safety	Telecoms (ISDN)
EN55022	EN60950	E1: TBR4
EN55024	IEC60950	T1: FCC Part 68
FCC Part 15	UL60950	T1: CS-03
AS/NZS3548	AS/NZS60950	
VCCI		

#### Environmental

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

#### Front Panel Display

LED:

- > ISDN: DSL Physicals
- > LAN: Speed, Activity, Half/Full Duplex

#### Management

- > HTTP web server – with access to user guide
- > SNMP MIB 1&2
- > VT100 – RS232C/Telnet

#### Physical Dimensions

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

#### Power

- > 100-240V AC, 47-63 Hz, 1A-0.5A
- > -48V DC also available, 1.2A (Max)

#### Program Storage

Code and configuration data are stored in FLASH and executed from RAM.

### Contact Details

Email: [sales@vegastream.com](mailto:sales@vegastream.com)

Web: <http://www.vegastream.com>

EMEA Office  
VegaStream Limited  
Berkshire Court  
Western Road  
Bracknell  
Berks RG12 1RE  
UK  
+44 (0) 1344 784900

USA Office  
VegaStream Inc.  
3701 FAU Boulevard  
Suite 200  
Boca Raton  
FL 33431  
USA  
+1 (877) 834 4470