



# Vega 100G and 200G

## The Most Resilient Line of VoIP Gateways in their Class

### Datasheet



Take advantage of the newest VoIP technology and achieve wide-ranging benefits such as reduced telephone charges and transition costs, by seamlessly integrating your existing equipment with a Vega 100G or 200G Digital Gateway.

- Supports Dual Gigabit Ethernet Connections
- Branch Office Survivability
- Voice, FAX, and Modem Support
- Flexible Call Routing for Fallback & Least Cost Routing
- Emergency PSTN Backup
- Interoperability with a Wide Range of Legacy & IP Equipment
- Available Annual Support & Software Maintenance Plans



#### ✓ Choose the Right License for Your Business

With low density applications in mind, choose between our Vega 100G for 30 simultaneous calls or our Vega 200G for 60 simultaneous calls.

#### ✓ Rapid Deployment

Every Vega VoIP gateway features a GUI based Installation wizard for rapid deployment. For high volume deployments the Auto Exec tool is perfect for auto configuration and firmware updates across multiple gateways.

#### ✓ Local Survivability

In the event of a WAN failure, IP phones behind the gateway can continue to call each other, be routed to a backup switch or connect directly to the PSTN.

#### ✓ Open, Non-Proprietary Interfaces

The Vega 100G and 200G support the following signaling schemes: ETSI, VN4, ISDN, NI1, NI2, AT&T 5ESS, DMS100, ISO QSIG Basic Call and QSIG Feature Transparency, Channel Associated Signaling (CAS), R2 MFC. All Vega gateways support SIP and T.38 Fax.

#### ✓ Service Provider Applications

- Customer premises gateway for SIP trunking
- Low-density PSTN gateway
- Survivability for IP phones Enterprise Applications
- Enterprise VoIP networking
- PSTN trunking for IP-PBXs
- Enterprise IP telephony gateway

# Technical Specifications

## Interfaces

### VoIP Interface

- ⦿ SIP
- ⦿ Fax support — up to G3 FAX, using T.38
- ⦿ Modem support — up to V.90, using G.711
- ⦿ VoIP channel capacity:
  - Vega100G:30
  - Vega200G:60
- ⦿ Audio Codecs:
  - G.711 (a-law/u-law) (64 kbps)
  - G.723.1 (5.3/6.4 kbps)
  - G.729a (8kbps)
  - G.726
  - T.38

### Telephony Interface

Primary Rate ISDN (User configurable NT/TE):

- ⦿ T1
  - NI1/NI2
  - AT&T 5ESS
  - CAS (RBS)
  - DMS100
  - ISO QSIG
- ⦿ E1
  - Euro-ISDN
  - ISO QSIG
  - VN4
  - CAS R2MFC

### LAN Interface

- ⦿ 2x RJ-45, 1000BaseT/100BaseTx/10BaseT, full/half duplex

## Features

### Identification

- ⦿ Caller ID presentation
- ⦿ Caller ID screening allows connections to be accepted only from selected call sources
- ⦿ SIP registration & digest authentication

### Operations, Maintenance & Billing

- ⦿ HTTP(S) web server
- ⦿ SNMP v1, v2c and partial v3 (USM authentication)
- ⦿ TFTP/FTP support
- ⦿ TR-069
- ⦿ RADIUS accounting & login
- ⦿ Remote firmware upgrade
- ⦿ VT100 — RS232/Telnet/SSH
- ⦿ Auto configuration upgrade

### Routing & Numbering

- ⦿ Direct Dialing In (DDI)
- ⦿ SIP registration to multiple proxies
- ⦿ Dial planner — sophisticated call routing capabilities, standalone or gatekeeper/proxy integration
- ⦿ NAT traversal

### Security & Encryption

- ⦿ Management — HTTPS, SSH Telnet
- ⦿ Configurable user login passwords
- ⦿ SIP/TLS and SRTP

### Call Quality

- ⦿ Adaptive jitter removal
- ⦿ Silence suppression
- ⦿ Type of Service (ToS)
- ⦿ Differentiated Services (DiffServ)
- ⦿ Comfort noise generation
- ⦿ 802.1p/Q VLAN tagging
- ⦿ QoS statistics reporting
- ⦿ Echo cancellation (G.168 up to 128ms tail)

### Redundancy/Survivability

- ⦿ Local Survivability — Business Continuity during WAN/SIP outage

## Compliance

- ⦿ EMC (CLASS A)
  - EN 55032:2012
  - EN 55024:2010
  - FCC Part 15
  - ICES-003
- ⦿ Safety
  - EN 62368-1:2014
  - IEC 62368-1:2014
  - AS/NZS 62368.1:2018
- ⦿ Telecom
  - TBR4
  - FCC Part 68
  - CS-03 — Part VI

## Environmental

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

## LED Indicators

- ⦿ Power
- ⦿ ISDN: NT/TE & link up
- ⦿ LAN: Speed/activity

## Dimensions

- ⦿ Vega 100G/200G
  - 70mm (W) x 155mm (D) x 43mm (H)
  - Weight: 1.20kgs (2.64lbs)
  - Rackmount ears supplied: 107mm (2-pieces)

## Power Supply

- ⦿ External 12V (24W) AC/DC adapter