

# Vega SBC

## Enterprise Appliance



For Enterprises

### WHAT IS SESSION BORDER CONTROL

IP communications across multiple, sometimes untrusted, networks needs to be normalized, managed and secured. There is a need to guarantee interoperability of multiple devices, carriers and protocols in a transparent way to the user of the network.

Session border controllers take care of the conversion between protocols, transcoding, threat prevention, resource limiting, and accounting at the edge of VoIP networks of enterprises and carriers alike.

### APPLICATIONS

- SIP Trunking
- Remote Worker
- Hosted PBX
- Skype For Business/  
Lync SBC
- Core Session Router  
and Load Balancer

### BENEFITS

- Network Security
- Quality of Service/  
Quality of Experience
- TDM Resilience
- Protocol Normalization
- Media Services
- Statistics and billing
- Regulatory Compliance

Full-featured protection with easy interconnection at the edge of enterprise networks. The most cost-effective, easiest-to-provision, and easiest-to manage line of SBCs on the market.

Scalability from 25–250 sessions/calls  
– [Field upgradeable session expansion](#)

All-in-one appliance for SIP and TDM connections

Traffic visualization tools

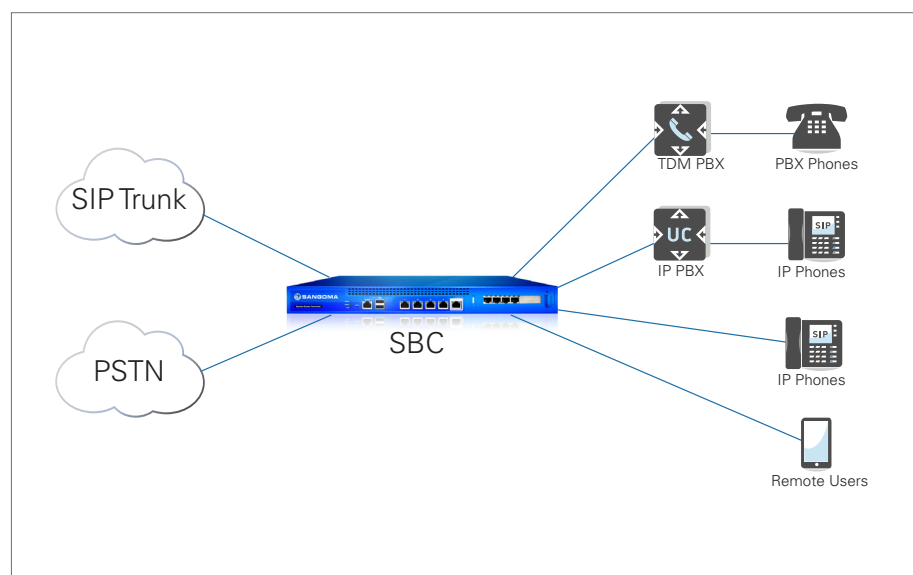
Cost-effective session-based licensing  
– [No hidden fees](#)

Enterprise inter-site networking and SIP trunking border control

Local security management for SMBs and small enterprises

Hardware-based transcoding

Qualified for Microsoft® Lync® and Skype for Business®



## TECHNICAL SPECIFICATIONS

### CAPACITIES

Max. 250 calls/sessions  
 Max. 120 TDM-SIP calls/sessions  
 Full transcoding capability  
 Full security (SRTP/TLS) capability  
 Unlimited SIP trunks

### LICENSING

Only max. number of calls are licensed  
 Field upgradeable in 5/25/50/100 call increments

### VOIP

SIP Trunking and Remote Working  
 SIP Intrusion Prevention  
 SIP Registration Scan Attack Detection  
 SIP Request Rate Limiting  
 SIP Friendly Load Limitation  
 SIP Registration Pass-thru  
 SIP Header Normalization  
 SIP Malformed Packet Protection  
 Advanced NAT Traversal Capabilities  
 Topology Hiding  
 ENUM Routing

### TELEPHONY INTERFACES (OPTIONAL)

Up to 4 E1/T1s (with A101DE/A102DE/A104DE card)  
 Echo cancellation up to 128ms tail  
 Primary rate ISDN, configurable NT/TE  
 T1: Q.931, NI2, 4ESS, 5ESS, DMS-100  
 E1: Q.931, ETSI

### MEDIA CAPABILITIES

Voice, Video, FAX, IM and Presence Support  
 Full RTP Transcoding (G.711, G.722, G.729, G.726, G.723.1, iLBC, AMR, G.722.1)  
 T.38 Fax Relay

### NETWORKING

5x 10/100/1000 BaseT ethernet ports  
 IPV4, IPV6  
 IPV4 / IPV6 interworking  
 VLAN support

### SESSION AND MONITORING

Multiple Session Routing Options  
 RTCP Statistics Reports  
 QoS (ToS or DSCP)  
 RADIUS CDR and Authentication  
 QoS Monitoring and Reporting

### SECURITY

DDoS / DoS Attack Protection  
 Call Security with TLS/SRTP  
 Media Security with SRTP  
 IPsec Encryption  
 IP Firewall with port forwarding  
 Two-stage authentication

### HARDWARE

Power: 60W universal internal power supply  
 Dimensions: 19" W x 8.15" D x 1.7" H / 431mm x 468mm x 44mm  
 Rack mounting clips included  
 1 Console port (USB to console port cable included)  
 2 USB ports

### CALL CONTROL

Advanced XML Routing Engine  
 Dynamic Load Balancing and Call Routing  
 Multiple Call Access Control options  
 Least Cost Routing  
 Rate limiting: Call and Registration  
 Endpoint authentication  
 Media Bandwidth Policy  
 Intelligent media anchoring/release

### DEBUGGING

Advanced troubleshooting  
 Web interface initiation of full media and signalling trace  
 Onboard PCAP tracing, signalling and media, wireshark compatible  
 Large onboard storage capacity for long term tracing

### MANAGEMENT

Easy to use Web Interface  
 HTTP XML-based CDR  
 Real-time monitoring and debugging  
 TR-069 for remote provisioning  
 REST based interface to remotely configure SBCs

### SUPPORT AND PROFESSIONAL SERVICES

Sangoma engineers are here to support your success. Whether you need technical support and software maintenance, training, consultation and installation services, Sangoma can help you. Visit [sangoma.com/support](http://sangoma.com/support) or contact your Sales representative for more information.

### WARRANTY

Standard 12-month warranty is included. Additional warranty services available, contact your Sales representative for more information.

In an effort to continuously improve our products Sangoma reserves the right to modify features, design or specifications at any time without prior notice or obligation.