![edgewater NETWORKS]

EdgeMarc 7301

ENTERPRISE SESSION BORDER CONTROLLER

BENEFITS:

- Converged solution for voice and data services

- Connect to SIP Trunking and hosted IP telephony service

- Scalable platform supporting up to 1,000 concurrent calls

- Connect branch/remote offices via service VPN tunnels

- Support for 8,000 registered devices

The EdgeMarc 7301 combines advanced voice and data features alongside a full suite of networking capabilities into a single, easy to use enterprise session border controller. The EdgeMarc 7301 delivers superior performance for multiple simultaneous services including voice, voice quality monitoring, traffic management, high capacity data throughput and firewall. It is the ideal solution for medium business, large enterprise, and service provider managed services.

Intelligent Edge for Voice

The EdgeMarc 7000 series enterprise session border controller provides the demarcation point for real-time, interactive IP services.

Supporting up to 1,000 concurrent calls and 8,000 registered devices, the EdgeMarc 7301 easily scales to support medium and large office deployments and is the ideal solution for converged IP voice and data networks requiring high performance and delivers:

- Telecom service cost savings
- Comprehensive security
- High quality and reliable voice service
- Simplified management

EASE OF MANAGEMENT

As with all EdgeMarc devices, the EdgeMarc 7301 is managed with Edgewater Networks' industry leading EdgeView services control platform. EdgeView provides a comprehensive view of key performance parameters, enabling service providers to quickly diagnose issues and proactively solve them, minimizing escalations and truck rolls. EdgeView also features user management and reporting capabilities along with menu driven configuration and provisioning tools to make set-up and internetworking simple and intuitive.

KEY FEATURES:

- Enables a single public IP address to be used for multiple IP phones or IADs
- Voice over data traffic ensures toll quality voice calls while allowing data traffic at full rate when possible
- VoIP aware firewall with stateful packet inspection
- Call statistics, quality measurements, and alarms
- QoS functions including traffic shaping, prioritization, guaranteed bandwidth and call admission control (CAC)

VoIP

- SIP ALG/B2BUA
- NAT for SIP
- Survivability (SIP) - station to station, PSTN failover (requires external gateway)
- SIP registration pacing
- Softswitch redundancy
- Proxy mode
- Multi-homed proxy mode
- Transparent proxy mode
- EdgeView Plug & Dial Compatible
- Dynamic VoIP clients list
- SIPRFC3261;SIPRFC2327;SIPRFC 3263; SIP RFC 2833
- VoIP Test Call Agent
- Codec: G711, G729, G726, G722

Traffic Management/Routing/QoS

- Dual WAN Ports for traffic management and link redundancy
- Class-based queuing
- Prioritization on IP
- Prioritization on VoIP Protocol
- Traffic shaping
- Guaranteed bandwidth
- Upstream bandwidth management
- Downstream bandwidth management
- VoIP call admission control
- Diffserv marking; Diffserv policing
- IP routing
- Secondary address/subinterface support
- VLAN - 802.1Q

System Services

- Supports IPv4 and IPv6 addressing and services
- DHCP server
- Local TFTP/FTP server
- Automatic TFTP/FTP download on restart

Management

- Web GUI
- CLI
- HTTP, HTTPS
- SSH, Telnet
- SNMP v1, v3
- TCPdump, Traceroute, Ping, Syslog
- Configuration backup/restore
- Remote Upgrades (FTP)

Security

- Password encryption for SIP User Agent password (protect EdgeMarc and SIP UA credentials)
- Stateful packet inspection firewall
- VoIP aware firewall
- Dynamic network address translation
- Static network address translation
- Port address translation
- Denial of Service protection - SYN flood, UDP flood, ICMP flood, Fragment flood
- IPSec
- IKE key management
- 3DES; AES; SHA-1; MD-5

Passive Call Quality Monitoring

- Per call statistics
- LAN side measurements
- WAN side measurements
- Mean Opinion Score (MOS): Listening quality and Conversational quality - For all concurrent calls
- Listening quality R-factor
- Conversational quality R-factor
- Below threshold MOS alerts
- Detailed Jitter and Packet loss statistics
- Out of order packets

Architecture

- Hardened Linux kernel
- Solid state flash
- Firmware upgrade failure recovery (automatic)
- Relative Humidity: 10% to 90%
- MTBF: 96,000 hrs
- BTU/h: 682

Hardware Specifications

- 6 x 10/100/1000 Ethernet
- RJ45
- W: 17.2", D: 17.5", H: 1.73" (1U)
- Weight: 12.75 lbs
- Power: 100/240v VAC - auto-selecting, 50 to 60 Hz - 200W MAX AC Input
- Hardware warranty - 3 years
- Operating Temperature: 0° to 40°C

Hardware Compliance

- RoHS 2.0 compliant
- WEEE compliant
- UL/cUL, LVD, Gost-R, UL-AR
- FCC Part 15 Class A, ICES-003, VCCI Class A, CCC, C-tick
- CE

Warranties

- Hardware: 5 years
- Software: 1 year