EdgeMarc 7301

Enterprise Session Border Controller

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.

Enterprise Session Border Controller 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

The EdgeMarc 7301 is equipped with Dual WAN and multi-LAN GigE ports.

VoIP ESBC

Enables a single public IP address to be used for multiple IP phones or IADs (SIP). Protocol fix-up for interoperability.

Traffic Management

Prioritizes voice over data traffic to ensure toll quality voice calls while allowing data traffic to burst up to full line rate when possible. Provides Call Admission Control (CAC) to ensure high quality voice calls

Voice and Data Firewall

Uses stateful packet inspection for data and tracks VoIP signalling states to dynamically open and close ports

Survivability

VoIP calls can be processed locally or routed locally to the PSTN during WAN link failures (using external gateway). High availability (1:1 redundant survivability option).

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
- SIP RFC 3261; SIP RFC 2327; SIP RFC 3263; SIP RFC 2833
- VoIP Test Call Agent

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

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

LAN Interfaces

- 3 x 10/100/1000 Mbps
- Auto Sensing
- RJ-45
- Half or Full Duplex
- Managed LAN

Management

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

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)

Hardware Specifications

- 4 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
- Relative Humidity: 10% to 90%
- Dual WAN ports
- Multi-LAN ports

Hardware Compliance

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

Ordering Information

Part Number	Description
7301-100-0050	7301: EdgeMarc 50
7301-100-0100	7301: EdgeMarc 100
7301-100-3000	7301: EdgeMarc 300
7301-100-0500	7301: EdgeMarc 500
7301-100-1000	7301: EdgeMarc 1000

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