

EdgeMarc 4806, 4808

MULTI-SERVICE GATEWAYS



BENEFITS:

- Future-proof design supporting both TDM and IP reduces capital expenses
- High availability design allows for a fully redundant implementation
- EdgeView integration greatly reduces operational expense and increases customer satisfaction
- Quick Connect certification with IP-PBX vendors speeds customer installations

As enterprises of all sizes make the transition from legacy technologies to IP-based solutions such as SIP Trunking and Hosted Unified Communications, they require flexibility to cost effectively support this transition. Edgewater Networks EdgeMarc Multi-Service Gateways provides the interfaces and functions that allows service providers to deliver a single edge device that adapts to an end user's changing needs.

Edgewater Networks EdgeMarc Multi-Service Gateways provides both PSTN gateway functions to support PRI and analog trunks, as well as an Enterprise Session Border Controller (ESBC) for security and Quality of Service (QoS) management of VoIP services. WAN interfaces include both Ethernet and optical, enabling the EdgeMarc 4806 and EdgeMarc 4808 to operate as an optical termination device. Edgewater Networks EdgeMarc 4806 and EdgeMarc 4808 is optimized to support the demanding needs of enterprises, supporting 1 Gb/sec symmetric WAN connections with up to 500 concurrent calls.

Edgewater Networks EdgeMarc 4808 is the future-proof platform that grows and expands to meet a wide variety of services and customer needs.

EASE OF MANAGEMENT

As with all EdgeMarc devices, the EdgeMarc 4806 and EdgeMarc 4808 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 interconnecting simple and intuitive.

KEY FEATURES:

- Gateway: Support for up to 2 PRI's and analog trunks; 2 FXO ports for PSTN fail-over
- E-SBC: Supports 2,000 registered users and 500 concurrent sessions
- Eight (8) 10/100/1000 LAN ports
- VoIP aware firewall with stateful packet inspection
- Call quality monitoring metrics and call statistics
- QoS functions including traffic shaping, prioritization, and Call Admission Control (CAC)
- Gigabit Ethernet (WAN/LAN)

IP Communications

- SIP ALG/B2BUA
- Survivability (SIP) - station to station, PSTN failover
- SIP registration pacing
- Softswitch redundancy
- Proxy mode
- Multi-homed proxy mode
- Transparent proxy mode
- Dynamic VoIP clients list
- SIP RFC 3261; SIP RFC 2327, SIP RFC 3263; SIP RFC 2833
- VoIP Test Call Agent
- Codec: G711, G722, G723, G726, G728, G729

Traffic Management/Routing

- 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
- VoIP call admission control
- Diffserv marking; Diffserv policing
- IP routing (BGP, RIP)
- Secondary address/subinterface support
- VLAN - 802.1Q
- Stateful Failover
- WAN Link redundancy
- Survivability
- SIP Server Geo-Redundancy

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

Passive Call Quality Monitoring

- Per call statistics
- LAN side measurements
- WAN side measurements
- Mean Opinion Score (MOS):
- Listening 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

Management

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

FXS Ports

- Loop Start
- Ringer Equivalency Number (REN) 5 per port; 20 per system
- Ringing voltage $\geq 48V_{rms}$ at 20Hz sinusoidal waveform
- Selectable resistive and complex impedances for global usage
- 48v on-hook voltage
- 24mA off-hook current
- LED for each port

FXO Ports

- RJ11 Connector
- Loop start
- Far end disconnect supervision
- Battery reversal, RTP silence detection
- LED for each port

WAN Ports

- 2 SFP slots
- 2 Ethernet inputs

PRI Codec

- G711ulaw
- G729a, G729b

PRI-Client, Network

- NI2
- 4ESS, 5ESS
- DMS100

Architecture

- Hardened Linux kernel
- Solid state flash
- Auto Firmware upgrade failure recovery

Specifications

- W: 16.75", D: 13.375", H: 1.7" (1U)
- Weight: 13 pounds

Mounting Options

- Rack mount
- Desktop

Warranty

- Hardware = 5 years
- Software = 1 year

Rear Panel

- AC power input
- On/Off Switch
- Kensington physical security notch
- Erase button
- LED for power and status
- V.90 management port

	EdgeMarc 4806	EdgeMarc 4808
Concurrent Calls (max)	200	500
WAN Inputs (Ethernet)	2	2
Optical WAN	2	2
LAN Ports (Ethernet)	8	8
PRI	2	2
TI WAN	2	2
FXO	2	2
FXS	6	22
SD Card	1	1

About Edgewater Networks

Founded in October 2002, Edgewater Networks is a market leader in enabling IP-based voice, video and data services. Service providers and enterprises of all sizes use Edgewater Networks solutions to simplify customer premise configurations for quick and smooth installations, reduce time to market and deliver rapid return on invested capital. The company helps customers deliver intelligence at the network edge with its Network Edge Orchestration platform that includes Intelligent Edge ESBCs and Edgelnterop certification program, and the EdgeView Service Control Center.

To learn more, please visit www.edgewaternetworks.com or call (844) 405-3550. Follow us on Twitter at @ewn_inc.

