

EdgeMarc 2900e and 2900a POE

INTELLIGENT EDGE - ENTERPRISE SESSION BORDER CONTROLLERS



BENEFITS:

- 12 fully managed POE ports
- Combined deployment of **EdgeView Service Control** Center and EdgeMarc Intelligent Edge greatly reduces operational expenses and increases customer satisfaction
- Supports data rates up to 1 Gb/s and 300 concurrent calls
- Cloud2Edge Complete capable

Deploying voice communications over the Internet can create quality and security issues that do not normally exist with traditional phone systems. To overcome these issues, Intelligent Edges are deployed on the customer network edge to ensure successful VoIP implementations. VoIP service providers deploy an Intelligent Edge in the form of an enterprise session border controller (ESBC) to improve voice quality and visibility into the customer environment, supporting both SIP trunking and hosted unified communications.

Edgewater Networks' EdgeMarc 2900e and 2900a Power over Ethernet (POE) Intelligent Edge devices are ideally suited for Hosted PBX applications that require POE functionality to power IP endpoints. This solution enables service providers to easily support locations with less than 12 phones with a single device (larger implementations can utilize external POE switches).

EdgeMarc Intelligent Edges scale according to user demands, allowing service providers to deliver high quality VoIP solutions to customers of all sizes and network configurations.

DEVICE SPECIFICATIONS: O

	EdgeMarc 2900e POE	EdgeMarc 2900a POE
Ports		•
WAN 1Gb/s Ethernet (RJ-45)	2	2
Optical WAN 1 Gb/s ports (SFP)	2	2
LAN 1 Gb/s Power over Ethernet (RJ-45)	12	12
FXO (RJ-11)	0	2
FXS (RJ-11)	0	6
Micro SD (SDXC) slot	1	1
Console (RJ-45)	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 the EdgeView Service Control Center, EdgeMarc Intelligent Edges and QuickConnect certification program.

Features and Capabilities	Specifications	
Performance		
Maximum data throughput	1Gb/s	
Maximum sessions, voice only	300	
Maximum number of registered devices (endpoints)	2000	
POE ports	Twelve (12) 15.4 watt ports, fully managed	
Cloud2Edge Complete Compatible	Yes. See www.edgewaternetworks.com/products-services/cloud2edgecomplete for more details	
Analog Port Features (2900a only)		
FXO Port	Loop start, Far end disconnect supervision, Battery reversal, RTP silence detection	
FXS Port	 Loop Start Ringer Equivalency Number (REN) – 5/port, 20/system Ringing voltage >= 48Vrms 20Hz, selectable impedance 48v on hook voltage, 24mA off-hook current 	
SIP Features		
Network Address Translation	Network Address Translation (NAT): static, dynamic Port Address Translation (PAT) (provides topology hiding of hosts on the LAN)	
Back-to-Back User Agent	Yes	
Application Layer Gateway (SIP proxy)	Yes	
Proxy Modes	Transparent proxy mode Multi-homed proxy mode	
SIP Registration Pacing	Registration rates (LAN-side/WAN side) can be controlled	
VoIP Test Call Agent	Remotely verify and troubleshoot connectivity	
Header Manipulation	Full control to add/delete/modify SIP headers	
Signaling Protocol (LAN/WAN)	UDP, TCP, TLS	
Media Protocol (LAN/WAN)	RTP, SRTP	
SIP Standards Compliance (primary standards)	 RFC 3261 RFC 2327 RFC 3263 RFC 2833 	
Codecs	G.711, G.722, G.726 G.729	
Fax	T.38 support for FXS interfaces	
	1.30 support for FA3 interfaces	
Security	1.30 support for FA3 line faces	
	Stateful, VoIP aware firewall	
Security		
Security Firewall	Stateful, VoIP aware firewall	
Security Firewall Denial of Service protection	Stateful, VoIP aware firewall SYN flood, UDP flood, ICMP flood, Fragment flood	
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Security Firewall Denial of Service protection Encryption and Authentication Encryption protocols supported	Stateful, VoIP aware firewall SYN flood, UDP flood, ICMP flood, Fragment flood TLS, SRTP, HTTPS, SSH, Radius 3DES, AES, SHA-256, MD-5	
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Features and Capabilities	Specifications	
System Management		
Device Management	CLI, (SSH, Telnet) Web GUI (HTTP, HTTPS)	
Remote upgrades, back-up, restore	TFTP, FTP, SCP, HTTP, HTTPS	
Firmware	Dual local firmware image for upgrade and recovery	
Network Management	SNMP v1, v3	
Message Analytics	System monitoring and SIP statistics	
Debug tools	Packet capture (tcpdump), traceroute, ping, syslog	
Endpoint monitoring	Two-way Active Monitoring Protocol (TWAMP)	
Edge Orchestration	EdgeView Service Control Center for device and endpoint management	
EdgeView key functions	 Remote troubleshooting Proactive management Inventory management Configuration management Reporting and data analytics (for more information, please see: www.edgewaternetworks.com/products-services/edgeview/) 	
Hardware Specifications		
Dimensions (W x D x H)	9.21" x 6.54" x 1.75"	
Weight	2 lbs.	
Mounting Options	Wall Mount, Rack Mountable	
MTBF	269,532 hours	
Operating Temperature	0-40 deg. Celsius	
Operating Relative Humidity	4% to 90% (non-condensing)	
Compliance	RoHS 2.0, UL/cUL, CB, FCC part 15, FCC part 68, IC, CE, RCM and VCCI	
Power	Wall mount - 2900e: DC-12V 1.66A 20W, 2900a: DC-12V 3A 36W	
Hardware Warranty	5 years	
Software support and maintenance	First year included	