

## Ribbon Communications EdgeMarc 2900a Session Border Controller - 70 Calls (02-126282)



Product Name: Ribbon Communications EdgeMarc 2900a Session Border Controller - 70 Calls (02-126282)

Manufacturer: Ribbon Communications

Model Number: 02-126282

Ribbon Communications EdgeMarc 2900a Session Border Controller - 70 Calls (02-126282)

The Ribbon Communications 02-126282 is ideally suited for Hosted PBX or SIP Trunking applications. The solution supports bi-directional data rates up to 1Gbps and up to 300 concurrent calls. It also features both outbound and inbound analog line (FXO/FXS) support for applications such as PSTN fail-over, fax, and overhead paging.

• Scalable configuration based on session license and field upgradeable as business need grows

• 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 Gbps

• Available as a VM for KVM, VMware and Hyper-V

Ribbon Communications 02-126282 - Technical Specifications

### Ports

• WAN 1Gbps Ethernet (RJ-45): 2

• Optical WAN 1 Gbps ports (SFP): 2

• LAN 1 Gbps Power over Ethernet (RJ-45): 4

• FXO (RJ-11): 0-2

• FXS (RJ-11): 6-8

• Micro SD (SDXC) slot: 1

• Console (RJ-45): 1

### Performance

• Maximum data throughput: 1Gbps

• Maximum sessions, voice only: 300

• Maximum number of registered devices (endpoints): 2000

• Cloud2Edge Complete Compatible: Yes

### Analog Port Features

• 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

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• 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

### Security

• Firewall: Stateful, VoIP aware firewall  
• Denial of Service protection: SYN flood, UDP flood, ICMP flood, Fragment flood  
• Encryption and Authentication: TLS, SRTP, HTTPS, SSH, Radius  
• Encryption protocols supported: 3DES, AES, SHA-256, MD-5  
• Key Management: IKE key management, IPsec  
• Proxy ARP: Yes  
• IPsec VPN: Yes (max 12 tunnels)  
• PPTP support: MSCHAP, MSCHAP V2, MSCHAP+MPPE

### Voice Quality Measurement

• Per call statistics (LAN/WAN): Full MOS support (including Jitter, Packet Loss)  
• Mean Opinion Score (MOS): MOS tabulated every 10 seconds of every call on both WAN and LAN side of call leg.

### Traffic Management/Routing/QoS

• Routing:- BGP - fully functional BGP stack supporting Layer 2/3 IP WAN solutions (MPLS) - RIP - OSPF - PPPoE - Secondary address / Subinterface  
• Multicast: Protocol Independent Multicast & sparse mode (PIM-SM)  
• Traffic prioritisation:- Class-based queueing (up to 8) - Prioritisation on IP and port - Prioritisation on VoIP protocol - Traffic Shaping - Call Admission Control - Upstream, downstream bandwidth management  
• DHCP server: Yes  
• QoS: Diffserv (DSCP), IP Precedence, policing  
• VLANs: - 802.1Q (up to 16) - Multi-VLAN ALG support  
• Network addressing: IPv4, IPv6

### 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

### Hardware Specifications

• Dimensions (W x D x H): 9.21" x 6.54" x 1.75"

## Ribbon Communications EdgeMarc 2900a Session Border Controller - 70 Calls (02-126282)

- 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

**Please Enquire**

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