

EdgeMarc 4570

Enterprise Session Border Controller

Introduction

The EdgeMarc 4570 combines an 8 port Integrated Access Device (IAD) and multiple voice and data features into a single, easy to use enterprise session border controller. It provides a single Ethernet WAN port, a 4 port managed VLAN switch, and integrated analog phone ports.

The 4570 is a versatile system that replaces standalone IADs and is used to connect PBX/key systems and analog phones to managed PBX and SIP trunking services.

All-in-One

- One box for Ethernet switch, analog ports, firewall, VoIP ALG – with a single management interface.

Survivability

- VoIP calls can be re-routed locally or over the PSTN during WAN link failures - using one device.

Quality of Service

- Packet prioritization and data traffic shaping for VoIP calls.

Security

- VoIP-aware stateful packet inspection firewall, encryption services and more.

Simplified Troubleshooting

- MOS statistics, call monitoring, LAN/WAN problem isolation from the router, Integrated VoIP Test Call Agent, TCPdump, PING , traceroute and more.

Product Benefits

Enterprise-class session border controller optimized for small to medium offices.

Connect, protect, optimize and monitor IP-based communications.

Applications:

- Connect key systems/IP phones to IP services like SIP trunking, and Hosted PBX
- Connect branch/remote offices to datacenter communications systems
- Ability to expand FXS port coverage of base systems



Specifications



Interfaces

Ethernet WAN: 1 x 10/100 Mbps

- Auto Sensing
- RJ-45
- Half or Full Duplex

Ethernet LAN: 4 x 10/100 Mbps

- Auto Sensing
- RJ-45
- Half or Full Duplex
- Managed VLAN

Phone/FXS: 8 ports,

- Loop start
- Ringer Equivalency Number (REN): 5 per port/20 per system
- Ringing voltage: $\geq 50V_{rms}$ at 20 Hz sinusoidal waveform
- Selectable resistive and complex impedances for global usage
- 48V on-hook voltage
- 24mA off-hook current

USB Ports: 2

Console Connector: DB9 Female

Power, Dimensions and Certifications

Height: 1.75", **Width:** 9.25", **Depth:** 6.5"

Weight: 2 lbs

Power: External Brick (AC)- 12V, 3.3A

Power Consumption: 40W (Maximum)

Certifications: UL, cUL, CE, FCC Part 15, Industry of Canada, CB, RoHS, VCCI, C-tick

VoIP

- SIP ALG
- NAT for SIP
- Survivability (SIP) - station to station
- Survivability (SIP) - PSTN failover
- 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

Management

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

System Services

- DHCP server
- Local TFTP/FTP server
- Automatic TFTP/FTP download on re-start

Specifications

Security

- 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

Traffic Management/Routing/ QoS

- 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

Passive Call Quality Monitoring

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

Call Features- Phone and Line Ports

- SIP User Agent
- SIP PSTN gateway
- Transfer
- Hold
- Conferencing (Network based)
- Caller id
- Call waiting
- T.38 fax support
- G711 u-law
- G711 a-law
- G723
- G729
- Inbound PSTN calling line port
- Inbound PSTN calling line port - forwarded phone number or extension
- Inbound PSTN calling line port - 2 stage dialing (survivable mode)
- Outbound calling line port - PSTN failover (survivable mode)
- Outbound calling line port - local enterprise gateway

Ordering Information

4570-100-0008: 4570 EdgeMarc 8 Enterprise Session Border Controller with 8 x FXS ports

4570-100-0015: 4570 EdgeMarc 15 Enterprise Session Border Controller with 8 x FXS ports

4570-100-0030: 4570 EdgeMarc 30 Enterprise Session Border Controller with 8 x FXS ports

4570U-100-15: 4570: EdgeMarc VoIP License Upgrade for 4570 - 8 to 15 WAN calls

4570U-100-30: 4570: EdgeMarc VoIP License Upgrade for 4570 - 15 to 30 WAN calls