

## Introduction

EdgeMarc Series converged network appliances are a new generation of edge device providing the demarcation point for real-time, interactive IP services. The EdgeMarc 6400 is for use in demanding environments and is available in redundant AC or DC power supply configurations. It provides:

- **A VoIP Application Layer Gateway (SIP, MGCP & H.323)** – Enables a single public IP address to be used for multiple IP phones or IADs
- **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 signaling states to dynamically open and close ports
- **Plug 'n Dial phone support** – an integrated DHCP server automates configuration of IP phones/IADs
- **Call quality monitoring** – provides MOS scoring and alarms on operator defined minimum MOS thresholds for voice calls

Supporting up to 10,000 concurrent calls the EdgeMarc 6400 is the ideal solution for converged IP voice and data networks requiring high performance and delivers:

- Significant cost savings
- Comprehensive security
- Guaranteed voice quality
- Simplified management

## The EdgeMarc 6400 Converged Network Appliance



## Save

The EdgeMarc 6400 appliance is an all-in-one solution that replaces multiple, standalone systems and provides all of the functions necessary to support mission critical voice and data services. It is easy to setup and manage to minimize total cost of ownership. It also reduces IP address costs by enabling a single public WAN IP address to be used for multiple IP devices on the LAN.

## Secure

Each EdgeMarc 6400 appliance includes a state-of-the-art voice and data firewall and NAT server to hide private IP addresses. The firewall couples knowledge of VoIP signaling with traditional packet filtering to dynamically open and close ports and ensure that only authorized voice and data traffic reaches the protected LAN.

## Ensure High Quality Voice

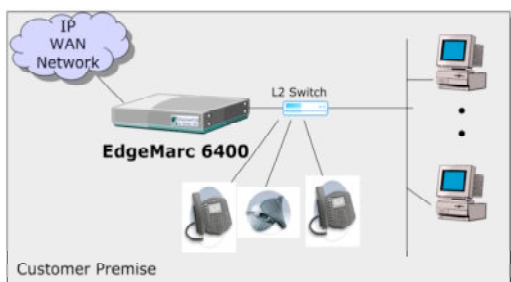
The traffic management functionality provided by the EdgeMarc 6400 is designed to ensure high priority real time voice traffic is processed before lower priority data traffic. At the same time, bandwidth not in use by voice traffic is made available so that data traffic can burst up to full line rate making efficient use of WAN bandwidth. It also supports TOS bit marking for priority devices and provides call admission control functionality to prevent calls in-progress from being affected by new calls when bandwidth is limited.

## Simplify

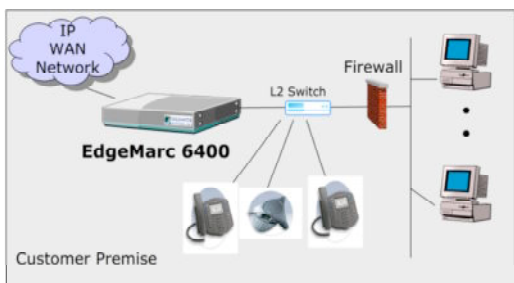
Each EdgeMarc 6400 appliance replaces multiple standalone systems and provides comprehensive remote management and testing features. It serves as the demarcation point between the WAN and LAN facilitating problem resolution at the edge by providing familiar IP test tools (eg. traceroute, ping, etc.) and MOS data for call quality metrics. It also includes many functions that automate the configuration of IP phones and IADs to simplify installation.

## SUGGESTED CONFIGURATIONS

### Installed With Existing WAN Termination



### Installed With Existing WAN Termination & Infrastructure



## Specifications

<b>WAN Port</b>	1x10/100/1000 Ethernet
<b>LAN Port</b>	1x10/100/1000 Ethernet
<b>Serial Ports</b>	1xRS-232
<b>Dimensions</b>	Compact 2U design 3.45"(H) x 17.11"(W) x 20"(D)
<b>Power</b>	2 x 470W DC power supplies or 2 x 500W AC power supplies
<b>Safety</b>	UL 60950, CSA 60950, IEC 950, TUV/GS EN60950
<b>Emissions</b>	FCC Class A, CISPR 22 Class A, EN 55022 Class A, VCCI Class A ITE
<b>Warranty</b>	1 Year

### Front View



### Back View

## Features

<b>Firewall</b>	Packet inspection with support for SIP, MGCP, H.323 and SCCP
<b>Traffic Management</b>	Dynamically prioritizes real-time traffic
<b>Application Layer Gateway</b>	Supports voice/video network address translation SIP, MGCP, and H.323 devices
<b>DHCP</b>	Server and Client
<b>Redundancy</b>	VRRP support
<b>Simultaneous Calls</b>	Up to 10,000 simultaneous calls
<b>Call Admission Control</b>	Generates busy signal for calls over maximum level
<b>Management</b>	SNMP, Web-based GUI and CLI
<b>Passive call quality monitoring</b>	Mean Opinion Score reporting and alarms

## Ordering Information

Part Number	Description
EM-6400A-500	500 call license, AC
EM-6400A-1000	1000 call license, AC
EM-6400A-5000	5000 call license, AC
EM-6400A-10000	10000 call license, AC
EM-6400D-500	500 call license, DC
EM-6400D-1000	1000 call license, DC
EM-6400D-5000	5000 call license, DC
EM-6400D-10000	10000 call license, DC