

200AE1 Network Services Gateway

Quick Start Guide

Version 1.0



Before You Start

Please read this guide thoroughly as it describes the basic installation of the device. Refer to online help for assistance when deploying and configuring the device in a specific environment.

This guide also provides an example of a typical 200AE1 deployment that can be used as a guideline for your installation.

Requirements for Installation

- A computer with a web browser such as Microsoft Internet Explorer or Netscape Navigator or any other browser of your choice
- At least one Ethernet cable
- One phone cable to connect the ADSL WAN port to the PSTN network supporting ADSL/ADSL 2/2+ standard.

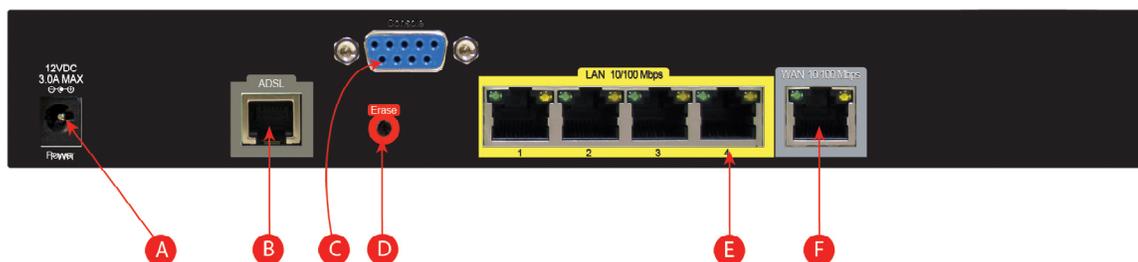
Instructions

Step 1 – Connecting the Cables

1. Connect one end of an Ethernet cable to local LAN port 4 of the 200AE1 denoted by “E” in the below diagram. Connect the other end of the cable to your computer’s Ethernet port.

Make sure that the LED in the top right corner is solid green. This LED indicates that the link is up.

2. If you are using an ADSL connection, connect one end of the phone cable to the ADSL port (denoted by “B” in the below diagram) and the other end of the cable to the phone jack on the wall.
3. If you are using an Ethernet connection, connect one end of the Ethernet cable to the Ethernet WAN port (denoted by “F” in the below diagram) and the other end of the Ethernet cable to an Ethernet port on a router or a modem.
4. Plug one end of the power adapter into an AC outlet and the other end into the power receptacle on 200AE1, denoted by “A” in the below diagram.



Make sure that the power and status LEDs denoted by “A” and “B” in the diagram below are solid green after a short while.



Step 2 – Configuring the EdgeMarc

1. The EdgeMarc device is preconfigured with a LAN address of 192.168.1.1 and a subnet mask of 255.255.255.0

Configure your computer Ethernet adapter's IP address to any address other than 192.168.1.1 in the same subnet mask, for example, 192.168.1.2



Note: If you're using a LAN switch, it must support 100Mbps full duplex.

2. Launch a web browser on the PC and enter the following URL: <http://192.168.1.1> and press **Enter**
3. The following login window should appear:



4. Enter **“root”** in the User name field and **“default”** in the Password field.
5. The System page should appear next. If you should see the "message of the day" instead, just click on the System link under “Configuration Menu” to get to the System page.
6. From the Configuration Menu on the left configure the following:
 - Network – To configure WAN and LAN ports
 - DHCP Server (optional) – Configure according to your specific needs.

Step 3 – Plan Your Configuration

The EdgeMarc 200AE1 can be deployed as a gateway router in a network. It can also be deployed in a network behind an existing firewall. Based on your deployment criteria, consult the following documents for further configuration:

- EdgeMarc 200AE1 Network Service Gateway Hardware Installation Guide
- VoIP Operating System (VOS) for EdgeMarc User Manual

Helpful Hints

Although not recommended, the 200AE1 and IP phones can be installed behind an existing enterprise firewall. In this instance, the firewall will have to be configured to allow access to and from the 200AE1's public IP address for the following ports:

Port Type	Firewall Ports to Open
UDP	161 (SNMP) and 162 (SNMPTRAP)
RTP	1056 to 1255
TCP	SSH TCP 22 for remote management & TCP 80 for WAN configuration-downloads
Telnet	23
FTP	TCP 21 for stateful TCP-session control from the 200AE1 to Edgewater FTP server
MGCP	2427, 2429, 2432, and 2727
NTP	123
SIP	5060 and 5075

IP phones normally point to a local NTP server for their time reference. The NTP port 123 needs to be opened if your network does not have an NTP server.



Note: Traffic shaping for this configuration is only available if the enterprise data devices are also installed behind the 200AE1.

The web page configurations for the various 200AE1 deployments are shown below. The two darker-shaded rows indicate the *minimum* configuration required for each deployment.

200AE1 GUI Configuration Page	200AE1 as Gateway Router	200AE1 within existing infrastructure	200AE1 behind an existing firewall
Network	Yes	Yes	Yes
VoIP/ALG	Yes	Yes	Yes
NAT	Yes	Optional	Yes
Firewall	Yes	Optional, but recommended	Optional, but recommended
DHCP	Yes	Yes (but should be disabled if DHCP server already exists)	Yes (but should be disabled if DHCP server already exists)
Traffic Shaper	Yes	Yes	Optional (depends on network topology)
Traffic Simulator	Only for testing	Only for testing	Only for testing
System	As needed	As needed	As needed