

EdgeMarc 250W Network Services Gateway

Quick Start Guide

Version 1.0



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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.

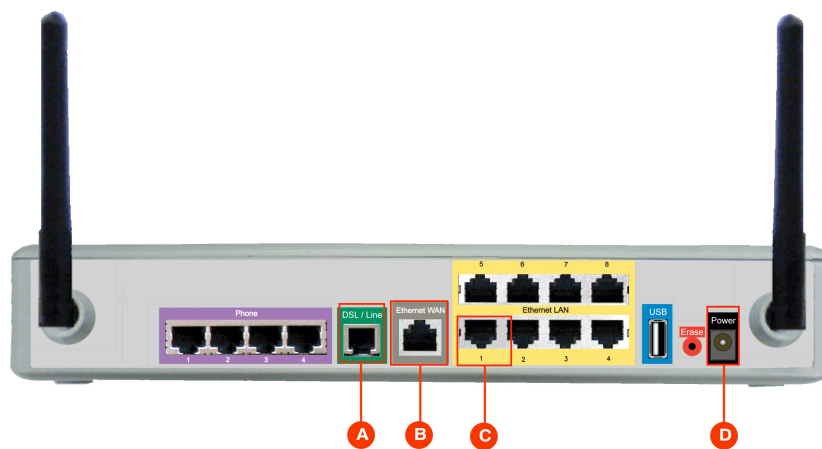
This guide also provides an example of a typical 250W deployment that can be used as a guideline for your installation.

Requirements for Installation

- A computer with a web browser such as Microsoft Internet Explorer or Mozilla Firefox 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. If you are using an ADSL connection, connect one end of the phone cable to the ADSL port (denoted by “A” in the above diagram) and the other end of the cable to the phone jack on the wall.

Important: No DSL Filter should be installed on the line.

Note: The DSL/Line port also supports an FXO connection. Your connection to the PSTN can be tested by attaching a phone to FXS port 4 and disconnecting the 250W from its power source.

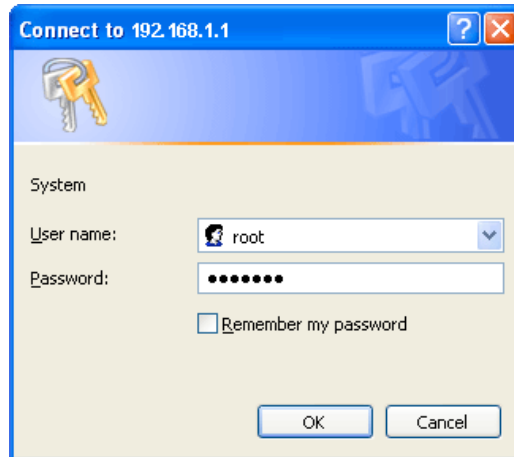
2. If you are using an Ethernet connection, connect one end of the Ethernet cable to the Ethernet WAN port (denoted by “B” in the above diagram) and the other end of the Ethernet cable to an Ethernet port on a router or a modem.
3. Plug one end of the power adapter into an AC outlet and the other end into the power receptacle on 250W, denoted by “D” in the above diagram.
4. Connect one end of an Ethernet cable to local LAN port 1 of the 250W denoted by “C” in the above diagram. Connect the other end of the cable to your computer’s Ethernet port.

Make sure that the power LED is solid green on the front of the device as denoted by “A” in the following picture. Make sure that the Ethernet LAN LED on the front of the device is solid green or amber for the port to which the device is connected, as denoted by “B” the following picture. This LED indicates that the link is up (consult the Hardware Install Guide for more information about LED behaviors).



Step 2 – Configuring the EdgeMarc

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



3. Enter **“root”** in the User name field and **“default”** in the Password field.
4. 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.
5. 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 250W can be deployed as a gateway router in a network. It can also be deployed in a network behind an existing firewall.

Note: When deploying VoIP services, all connected LAN switches or routers must support full duplex.

Based on your deployment criteria, consult the following documents for further configuration:

- EdgeMarc 250W Network Service Gateway Hardware Installation Guide
- VoIP Operating System (VOS) for EdgeMarc User Manual

Helpful Hints

Although not recommended, the 250W 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 250W'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 250W 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 250W.

The web page configurations for the various 250W deployments are shown below. The two darker-shaded rows indicate the *minimum* configuration required for each deployment.

| 250W GUI Configuration Page | 250W as Gateway Router | 250W within existing infrastructure | 250W 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 |