

```
<?php require_once "lib.php"; title("Install the LANforge Hardware");
require_once("javascript_hdr.php"); ?>
</head>
<body>
<?php require_once("header.php"); ?>
<?php require_once("menu.php"); ?>

<div id="contentDiv">

<span class="big_heading"><center>Install the LANforge Hardware</center></span>
```

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<P>
<a href="#overview">Overview</a>
<ol>
  <li> <a href="#eq">Additional Equipment Needed for Install</a></li>
  <li> <a href="#install">LANforge Hardware Installation Procedure</a></li>
  <li> <a href="#config">LANforge Hardware Configuration</a></li>
  <li> <a href="#trouble">LANforge Hardware Trouble Shooting Guide</a></li>
</ol>
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```
<P>
<a name="overview"></a>
<center> <span class="big_heading">Overview</span></center>
<P>
```

The LANforge Hardware installation documentation covers installing rack-mount chassis designed to fit into a 19-inch frame. This documentation also covers adding an additional ethernet card to an existing chassis.

This document assumes that you have obtained your hardware from Candela Technologies or a licensed distributor of LANforge equipment.

If you are running LANforge on your own hardware, then most of this document will not directly apply to you, though it may still offer you some useful information.

```
<P>
<a name="eq"></a>
```

```
<ol class="med">
  <li>
    <span class="big_heading">
      Additional Equipment Needed for Install</span>
    <span class="default">
```

In addition to the contents of your package, there are other hardware requirements you need to satisfy before you can configure the LANforge equipment for the first time.

These requirements include:

- A VGA monitor.
- A mouse.
- A keyboard.
- Ethernet cable (CAT-5, RJ-45 ends).

Once configured for the local management network, all items except the ethernet cable are no longer required for the traffic modules. The monitor, keyboard and mouse are not mandatory for the host modules but are recommended to ease usability of the system.

```
<li>
  <a name="install"></a>
  <span class="big_heading">
    LANforge Hardware Installation</span>
  <span class="default">
```

LANforge Data Generator (LF10XX series)

The traffic modules are 19' rack mountable modules. The modules can be mounted vertically within the same rack with minimal air gap. The traffic modules need not necessarily be co-located to work together: As long as the same management network is used to connect all the traffic and host modules, the devices can be remote.

the Controllers are configured for different 'realms' in lfconfig.

<P>

Configuring the IP information.<P>

NOTE: If you supply Candela Technologies with this information at purchase time, your equipment will come pre-configured, so that all you have to do is power up the systems!

<P>

NOTE: <u>ONLY</u> change the management port (probably eth0), the LANforge GUI can be used to change the data-generating ports.

<P>

This section describes the configuration needed to begin use of the LANforge system.

Before starting, the network administrator should decide on a unique IP address, a subnet mask, a default gateway, a host name and the domain for each module (traffic and host).

<P>

To change the IP information, you should use the appropriate tool for your particular operating system. For Fedora Core Linux, try: system-config-network

<P>

Configuration is now complete.<P>

You may want to reboot the machine to ensure that it comes up correctly before you remove the keyboard/mouse/monitor. To reboot, type:
<tt>reboot</tt>

<P>

The monitor, keyboard and mouse are optional now for this module. Note: it is recommended that the monitor, keyboard and mouse be maintained on the host modules for ease of use. Repeat this procedure for all the modules that need configuration.

<P>

<P>

LANforge Hardware Troubleshooting Guide

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This section attempts to help resolve some of the more common problems that users experience. If, after reviewing this section carefully, the problem is still present, please contact Candela Technologies technical support at support@candelatech.com.

<P>

Hardware Trouble<P>

<dl>

<dt>Module does not appear to power up.</dt>

<dd>Verify that the module is plugged into a working 120VAC outlet. Use something better than a screw-driver to confirm a working power source!!<P> Some systems have very small power buttons on front. Make sure you've pressed the right one!

</dd>

<P>

<dt>Keyboard and mouse do not work.</dt>

<dd>If the keyboard and mouse were not present when the module was rebooted, or they were removed after booting, they may not function. Telnet to the module, grant super user privilege and type the <tt>shutdown -h now</tt> command to halt the system.

Power down the system, attach the keyboard and mouse, and power up the system.

</dd>

<P>

<dt>Module appears to power up but won't respond after a power cycle.</dt>

<dd>If the module was powered down abruptly, file system corruption may have taken place. Allow 10-15 minutes for the system to boot and clean

the corruption. If after this time the module still does not respond, connect a monitor, keyboard and mouse to the processor card on the module. If the system has indeed stalled during a file system fix, it may require user input. Follow the instructions on the screen to clear the problem. Note: it may be necessary to power cycle the module after the keyboard and mouse are attached. Contact Candela Technologies if problem persists.

</dd>

</dl>

<P>

<?php require_once("footer.php"); ?>

</div>

</BODY>

</html>