

640x350 @85Hz	1024x768 @75Hz
640x400 @56Hz	1024x768 @90Hz
640x400 @84Hz	1024x768 @100Hz
640x400 @85Hz	1152x864 @60Hz
640x480 @60Hz	1152x864 @70Hz





Dominion LX Quick Setup Guide

Thank you for your purchase of the Dominion LX[™]. The LX is the industry's highest quality, most affordable digital KVM (Keyboard, Video, Mouse) switch for your growing SMB business.

For additional information on any aspect of the LX, see the accompanying online help accessed from the LX or the LX help in PDF format, which can be downloaded from the Firmware and Documentation section of Raritan's website (http://www.raritan.com/support/firmware-and-documentation/).

To ensure you have the most current documentation for the LX, Raritan recommends using online help or the PDF versions of the guides as your primary resource. All help is available on our website.

Step 1: Configure the KVM Target Servers

Before installing the LX, configure all KVM target servers to ensure optimum performance. This configuration applies only to KVM target servers, not to the client workstations (remote PCs) used to access the LX remotely.

Desktop Background

For optimal bandwidth efficiency and video performance, use solid color backgrounds whenever possible. Backgrounds featuring photos or complex gradients might degrade performance.

Supported Video Resolutions

Ensure that each target server's video resolution and refresh rate are supported by the LX and that the signal is noninterlaced.

Video resolution and cable length are important factors in the ability to obtain mouse synchronization. See Target Server Connection Distance and Video Resolution in the LX

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Resolutions	
640x480 @66.6Hz	1152x864 @75Hz
640x480 @72Hz	1152x864 @85Hz
640x480 @75Hz	1152x870 @75.1Hz
640x480 @85Hz	1152x900 @66Hz
720x400 @70Hz	1152x900 @76Hz
720x400 @84Hz	1280x720@60Hz
720x400 @85Hz	1280x960 @60Hz
800x600 @56Hz	1280x960 @85Hz
800x600 @60Hz	1280x1024 @60Hz
800x600 @70Hz	1280x1024 @75Hz
800x600 @72Hz	1280x1024 @85Hz
800x600 @75Hz	1360x768@60Hz
800x600 @85Hz	1366x768@60Hz
800x600 @90Hz	1368x768@60Hz
800x600 @100Hz	1400x1050@60Hz
832x624 @75.1Hz	1440x900@60Hz
1024x768 @60Hz	1600x1200 @60Hz
1024x768@70	1680x1050@60Hz
1024x768@72	1920x1080@60Hz



Mouse Settings

The LX operates in Absolute Mouse $\mathsf{Mode}^{\texttt{\tiny M}},$ Intelligent Mouse Mode and Standard Mouse Mode.

Mouse parameters do not have to be altered for Absolute Mouse Synchronization but a D2CIM-VUSB or D2CIM-DVUSB is required. For both the Standard and Intelligent Mouse Modes, mouse parameters must be set to specific values.

See the **Installation and Configuration** section of the LX online help or user guide for details on configuring mouse settings for different operating systems.

Step 2: Configure Network Firewall Settings

To enable remote access to the LX, your network and firewall must allow communication on TCP Port 5000. Alternatively, configure the LX to use a different TCP port, then allow communication on that port. To access the LX via a web browser, your firewall must allow access to TCP Port 443 (Standard HTTPS). Access to TCP Port 80 (Standard HTTP) enables automatic redirection of HTTP requests to HTTPS.

Step 3: Connect the Equipment



A. AC Power

To connect the power supply:

- Attach the included AC power cord to the LX and plug it into an AC power outlet.
- **B. Network Port**
- To connect the network:
- Connect a standard Ethernet cable (included) from the network port to an Ethernet switch, hub, or router.

- C. Local Access Port (Local PC)
- To connect the local port:
- Attach a multi-sync VGA monitor, mouse and keyboard to the respective Local User ports using a USB keyboard and mouse. The port connections are located on the back panel of the LX.

Connection	Description
Monitor	Attach a standard multi-sync VGA monitor to the HD15 (female) video port.
Keyboard	Attach a standard USB keyboard to one of the USB Type A (female) ports.
Mouse	Attach a standard USB mouse to one of the USB Type A (female) ports.

D. Target Server Ports

To connect a target server to the LX:

- 1. Use the appropriate Computer Interface Module (CIM).
- Attach the UTP (Cat5/5e/6) cable of your CIM to the video port of your target server. Ensure that your target server's video has already been configured to a supported resolution and refresh rate. For Sun servers, ensure that your target server's video card is set to output standard VGA (H-and-V sync) and not composite sync.
- Attach the keyboard/mouse connector of your CIM to the corresponding ports on your target server. Using a standard straight-through UTP (Cat5/5e/6) cable, connect the CIM to an available server port on the back of your LX device.

Step 4: Configure the LX

The first time you power up the LX device, there is some initial configuration that you need to perform through the LX Local Console:

- Change the default password
- Assign the IP address
- Name the KVM target servers

The LX can be configured remotely via web browser. This requires the workstation have an appropriate Java Runtime Environment (JRE) version installed.

Optionally, you can add user groups and users during the initial configuration. See the **User Management** section of the LX help for details.

Changing the Default Password

To change the default password:

1. Once the unit has booted, enter the default username (admin) and password (raritan). Click Login.

🕃 Raritan.

 Enter the old password (raritan), enter a new password and then enter the new password again. Passwords can be up to 64 characters in length and can consist of English, alphanumeric and special characters. Click Apply. Click OK on the Confirmation page.

Assigning an IP Address

To assign an IP address:

- 1. Choose Device Settings > Network. The Network Settings page opens.
- Specify a meaningful Device Name for your LX device. Up to 32 alphanumeric characters using valid special characters and no spaces.
- In the IPv4 section, enter or select the appropriate IPv4specific network settings:
 - a. Enter the IP Address if needed. The default IP address is 192.168.0.192.
 - b. Enter the Subnet Mask. The default subnet mask is 255.255.255.0.
 - c. Enter the Default Gateway if None is selected from the IP Auto Configuration drop-down.
 - d. Enter the Preferred DHCP Host Name if DHCP is selected from the IP Auto Configuration drop-down.
 - e. Select the IP Auto Configuration. The following options are available:
 - None (Static IP) This option requires that you manually specify the network parameters.
 This is the recommended option because the LX is an infrastructure device and its IP address should not change.
 - DHCP Dynamic Host Configuration Protocol is used by networked computers (clients) to obtain unique IP addresses and other parameters from a DHCP server. With this option, network parameters are assigned by the DHCP server. If DHCP is used, enter the Preferred host name (DHCP only). Up to 63 characters.
- If IPv6 is to be used, enter or select the appropriate IPv6specific network settings in the IPv6 section:
 - a. Select the IPv6 checkbox to activate the fields in the section.
 - b. Enter a Global/Unique IP Address. This is the IP address assigned to the LX.
 - c. Enter the Prefix Length. This is the number of bits used in the IPv6 address.
 - d. Enter the Gateway IP Address.
 - e. Link-Local IP Address. This address is automatically assigned to the device. It is used for neighbor discovery or when no routers are present. **Read-Only**
 - f. Zone ID. This identifies the device with which the address is associated. **Read-Only**
 - g. Select the IP Auto Configuration. The following options are available:

 None - Use this option if you do not want an auto IP configuration and prefer to set the IP address yourself (static IP). This is the default and recommended option.

If None is selected for the IP auto configuration, the following Network Basic Settings fields are enabled: Global/Unique IP Address, Prefix Length, and Gateway IP Address allowing you to manually set the IP configuration.

- Router Discovery Use this option to automatically assign IPv6 addresses that have Global or Unique Local significance beyond that of the Link Local, which only applies to a directly connected subnet.
- Select Obtain DNS Server Address Automatically if DHCP is selected and Obtain DNS Server Address is enabled. When Obtain DNS Server Address Automatically, the DNS information provided by the DHCP server will be used.
- 6. If Use the Following DNS Server Addresses is selected, regardless of whether DHCP is selected or not, the addresses entered in this section will be used to connect to the DNS server.

Enter the following information if the Following DNS Server Addresses option is selected. These addresses are the primary and secondary DNS addresses that will be used if the primary DNS server connection is lost due to an outage.

- a. Primary DNS Server IP Address
- b. Secondary DNS Server IP Address
- 7. When finished, click OK.

Configuring Date/Time Settings (Optional)

To set the date and time:

- 1. Choose Device Settings > Date/Time. The Date/Time Settings page opens.
- 2. Choose your time zone from the Time Zone drop-down list.
- 3. To adjust for daylight savings time, check the "Adjust for daylight savings time" checkbox.
- 4. Choose the method you would like to use to set the date and time:
 - User Specified Time Choose this option to input the date and time manually. For the User Specified Time option, enter the date and time. For the time, use the hh:mm format (using a 24-hour clock).
 - Synchronize with NTP Server Choose this option to synchronize the date and time with the Network Time Protocol (NTP) Server.
- 5. For the Synchronize with NTP Server option:
 - a. Enter the IP address of the Primary Time server.
 - b. Enter the IP address of the Secondary Time server. **Optional**
- 6. Click OK.



Naming Target Servers

To name a target server:

- Using the LX Local Console, choose Device Settings > Port Configuration and then click the Port Name of the target server you want to name.
- 2. Enter a name for the server, which can be up to 32 alphanumeric and special characters. Click OK.

Step 5: Launch the LX Remote Console

To launch the LX Remote Console:

- Log in to any workstation with network connectivity to your LX, and that has Microsoft .NET[®] and/or Java Runtime Environment[®] installed (JRE[®] is available on the Java website http://java.sun.com/).
- Launch a supported web browser such as Internet Explorer[®] or Firefox[®].
- Enter the URL: http://IP-ADDRESS or http://IP-ADDRESS/akc for .NET, where IP-ADDRESS is the IP address assigned to your LX. You can also use https, the DNS name of the LX assigned by the administrator (provided that a DNS server has been configured), or type the IP address in the browser (LX always redirects the IP address from HTTP to HTTPS.)
- 4. Enter your username and password. Click Login.

Access and Control Target Servers Remotely

The LX Port Access page provides a list of all LX ports, as well as the connected target servers, their status, and availability.

Accessing a Target Server

To access a target server:

- 1. Click the Port Name of the target you want to access. The Port Action Menu is displayed.
- 2. Choose Connect from the Port Action menu. A KVM window opens with a connection to the target.

Switching between Target Servers

To switch between KVM target servers:

- 1. While already using a target server, access the LX Port Access page.
- 2. Click the port name of the target you want to access. The Port Action menu appears.
- 3. Choose Switch From in the Port Action menu. The new target server you selected is displayed.

Disconnecting a Target Server

To disconnect a target server:

• Click the port name of the target you want to disconnect. When Port Action menu appears, click Disconnect.

Additional Information

For more information about the LX[™] and the entire Raritan product line, see Raritan's website (www.raritan.com). For technical issues, contact Raritan Technical Support. See the Contact Support page in the Support section on Raritan's website for technical support contact information worldwide.

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