

Console Port and Command Line Interface User Guide



Epic 5 Gigabit Router

- ▶ Introduction
- ▶ Console Port, Serial Cable, Software
- ▶ CLI Command List

CONTENTS

- INTRODUCTION..... 1**
- GETTING CONNECTED 2**
 - Serial Cable.....2
 - Software2
- LIST OF COMMANDS..... 4**

INTRODUCTION

This guide covers connection to the console port on the Epic 5 router and using the command line interface (CLI). The guide assumes you have a reasonable working knowledge of basic networking concepts and that you're already familiar with RS-232 serial interfaces and command line interface use.

If you aren't familiar with command lines or serial port configuration, we recommend you familiarize yourself with these concepts before you attempt to configure the Epic 5 using the console port or CLI.

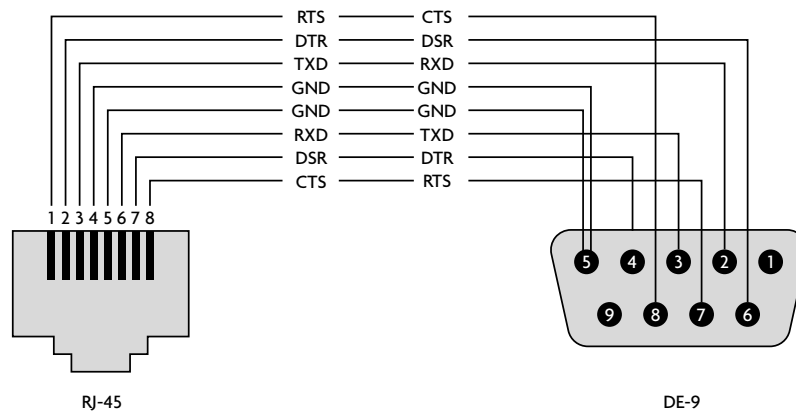
GETTING CONNECTED

Before you can access the Epic 5 via the console port, you'll need a cable and RS-232 terminal emulation software. On many newer computers, you may also need a USB-to-serial adapter.

⚠ CAUTION: *The RJ-45 console port is NOT an Ethernet port. Do not connect a computer network interface, switch or other network device to the console port.*

Physical Cable

A cable is NOT included with the Epic 5 router. You can use the RJ-45-to-DE-9 serial cable included with Luxul managed switches, or you can use a commercially-available USB-to-RJ-45 serial adapter. Lastly, you can use the following pinout diagram to build a cable or configure your own adaptor.



RJ45-to-DE-9 Serial Cable Pinout

Computer Serial Port Settings

The settings for the serial port on the computer making the connection are as follows:

115,200 baud rate, 8 data bits, 1 stop bit, no parity, no flow control (or 115200,8,none,1,none).

Getting Logged In

Once the terminal emulation software connects to the Epic 5, tap the **Enter** key and you should see a login prompt. The username is **admin**, and the password will be the same as the web interface. If the login hasn't been changed, both user-name and password will be set to the default **admin** and **admin**, respectively.

Once you're logged in, you'll see the hashtag command prompt (**#**). Refer to the following section containing a list of commands. At any time, you may enter a question mark (**?**) to see a list of valid commands.

There is also a timeout that will log the command line interface user out after a period of inactivity. The default timeout is 5 minutes, but the value is configurable in the web interface.

COMMAND LINE INTERFACE LIST OF COMMANDS

Below is a tree of all Epic 5 CLI commands and arguments.

Required arguments are enclosed in angle brackets, e.g. <argument1>. Optional arguments are enclosed in square brackets, e.g. [argument1].

At any time, entering a question mark (?) will display a list of valid commands.

► configure

Invokes configuration mode with new top level commands (below). Prompt reflects the new mode.

► interface <wan,lan,vlan> [which_one]

(Enters interface configure mode for the given wan, lan, or vlan, with the which_one argument being the number or id of the port.)

• wan <id>

- static <ip> <netmask> <gateway> (disables dhcp_client)
- pppoe <user> <password> <max_failed_pings> <ping_interval> [service_name]
- dhcp
- mac <mac_address>
- mtu <value>
- primary_dns <address>
- secondary_dns <address>
- exit (Return to configure level.)

• lan

- dhcp_enable <class> <ip> <subnet> <start> <end> <lease>
- dhcp_disable <ip> <subnet>
- exit (return to configure level)

• vlan <id>

- add <description> <ip> <netmask>
- remove
- inter_vlan_routing <enabled/disabled>
- port <port_id> <enabled> <egress_rule>
- dhcp_enable <start> <end> <lease_hours>
- dhcp_disable
- pvid <port>
- exit (return to configure level)
- add_route <description> <interface> <destination> <netmask> <gateway> [metric]
- del_route <description>
- exit

Return to the top level.

► exit

Exits the CLI and produces a login prompt.

► log [clear] [size]

With no arguments, this command displays the log.

► factory_default

Executes the factory reset to default configuration and reboots the router.

► info

Provides information about model, firmware version, hostname and uptime.

- ▶ **ping <ipv4_addr> [count]**
Returns the output of the ping command for the given number of count, or a default number.
- ▶ **ping6 <ipv6_addr> [count]**
Returns the output of the ping6 command for the given number of count, or a default number.
- ▶ **reboot**
Reboots the device.
- ▶ **show**
 - ▷ **connected_clients**
Shows all the connected clients, their IP, and MAC. Same as the web UI.
 - ▷ **routes**
 - ▷ **static_routes**
 - ▷ **interface <wan/lan/vlan> [id] ip**
 - ▷ **interface <wan/lan/vlan> [id] netmask**
 - ▷ **interface <lan/vlan> <id> dhcp**
 - ▷ **interface <wan> <id> primary_dns**
 - ▷ **interface <wan> <id> secondary_dns**
 - ▷ **interface <wan> <id> pppoe**
 - ▷ **interface <wan> <id> mtu**
 - ▷ **interface <wan> <id> mac**
 - ▷ **interface <vlan> <id> ports**
 - ▷ **interface <vlan> <id> pvid**
- ▶ **terminal**
 - ▷ **echo <on/off>**
Turn the echo on/off as well as other character interpretation. Meaning special characters like arrow keys, backspace, etc. will or will not be processed.
- ▶ **top**
Returns one iteration of the output from the top command
- ▶ **traceroute <ipv4_addr>**
returns the output of the traceroute command for the given ip address.
- ▶ **traceroute6 <ipv6_addr>**
returns the output of the traceroute6 command for the given ip address.
- ▶ **upgrade <url>**
Downloads and install firmware from the specified URL.

