



# Ethernet Controller Command Reference

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This chapter describes the commands to configure the Ethernet controller.

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# controller ethernet

To configure ethernet controller use the **controller optics port-mode ethernet** command in the config mode.

**controller optics** *R/S/I/P* { **port-mode** } { **ethernet** } [**framing** *type* **mapping** *type*]

## Syntax Description

<b>controller optics</b>	Name of the controller
<i>R/S/I/P</i>	Displays the Rack/Slot/Instance/Port of the controller.
<b>port-mode</b>	Port mode.
<b>ethernet</b>	Type of the controller.
<b>framing</b>	Framing for the port mode.
<b>mapping</b>	Mapping for the port mode.

## Command Default

None

## Command Modes

Config mode

## Command History

Release	Modification
Release 5.2.4	This command was introduced.

## Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

## Task ID

Task ID	Operation
Ethernet	write

## Example

The following example shows how to configure an ethernet controller.

```
RP/0/RP0:hostname (config)# controller optics 0/0/0/0
RP/0/RP0:hostname (config-optics)# port-mode ethernet framing opu0 mapping gmp
```

# controller sonet

To configure an sonet controller, use the **controller** command in the config mode. To delete the controller, use the **no** form of this command.

**controller optics** *R/S/I/P*

**port-mode sonet** [**framing** *type* **mapping** *type*] [**wis** *rate*]

**no port-mode sonet** [**framing** *type* **mapping** *type*] [**rate** *type*]

Syntax Description	controller	Name of the controller.
	<b>optics</b>	Name of the controller.
	<i>R/S/I/P</i>	Displays the Rack/Slot/Instance/Port of the controller.
	<b>port-mode</b>	Port mode
	<b>sonet</b>	Name of the controller.
	<b>framing</b>	Framing for the port mode.
	<b>mapping</b>	Mapping for the port mode.
	<b>rate</b>	Rate for the port mode.

**Command Default** None

**Command Modes** Config mode

Command History	Release	Modification
	Release 5.2.4	This command was introduced.

**Usage Guidelines** To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID	Task ID	Operation
	Ethernet	write

## Example

This example shows how to create sonet controller:

```
RP/0/RP0:hostname (config) # controller optics 0/0/0/1
RP/0/RP0:hostname (config-optics) # port-mode ethernet framing opu2 mapping wis rate oc192
RP/0/RP0:hostname (config-optics) # no port-mode ethernet framing opu2 mapping wis rate
oc192
```

## show controller (ethernet)

To display all the details of an ethernet controller, use the **show controllers** command in the exec mode.

**show controllers** { **GigabitEthCtrlr** | **TenGigECtrlr** | **HundredGigECtrlr** } *R/S/I/P*

Syntax Description		
	<b>GigabitEthCtrlr</b>	Displays the 1 gigabit ethernet controller.
	<b>TenGigECtrlr</b>	Displays the 10 gigabit ethernet controller.
	<b>HundredGigECtrlr</b>	Displays the 100 gigabit ethernet controller.
	<i>R/S/I/P</i>	Displays the Rack/Slot/Instance/Port of the controller.

**Command Modes** Exec mode

Command History	Release	Modification
	Release 5.2.4	This command was introduced.

**Usage Guidelines** To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID	Task ID	Operation
	Ethernet	read

### Example

This example shows how to display the details of the ethernet controller:

```
RP/0/RP0:hostname # show controllers GigabitEthCtrlr 0/11/0/0
```