

Ethernet Controller Command Reference

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

controller optics	Name of the controller
R/S/I/P	Displays the Rack/Slot/Instance/Port of the controller.
port-mode	Port mode.
ethernet	Type of the controller.
framing	Framing for the port mode.
mapping	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 1

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.
optics	Name of the controller.
R/S/I/P	Displays the Rack/Slot/Instance/Port of the controller.
port-mode	Port mode
sonet	Name of the controller.
framing	Framing for the port mode.
mapping	Mapping for the port mode.
rate	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

GigabitEthCtrlr	Displays the 1 gigabit ethernet controller.
TenGigECtrlr	Displays the 10 gigabit ethernet controller.
HundredGigECtrlr	Displays the 100 gigabit ethernet controller.
R/S/I/P	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
```