



Configuring SFP

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Configuring SFP+



Note Several Cisco platforms, NIMs, and SM cards support configuring multiple-rate SFPs on same interface, e.g., 1G SFP or 10G SFP+ on a 10G port.

In a port-channel bundle, all member interfaces should be of same speed, and duplex. It is recommended to use duplex interfaces of the same speed as member interfaces for configuring a port-channel.

For more information about interfaces that support multiple-rate SFPs, see the corresponding datasheets.

SUMMARY STEPS

1. **enable** *source-interface gigabitethernet slot/port*
2. **configure terminal**
3. **interface** *tengigabitethernet slot/port*

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	enable <i>source-interface gigabitethernet slot/port</i> Example: Router# enable	Enables the privileged EXEC mode. If prompted, enter your password.
Step 2	configure terminal Example:	Enters the global configuration mode.

	Command or Action	Purpose
	Router# configure terminal	
Step 3	interface tengigabitethernet slot/port Example: Router(config)# interface tengigabitethernet 4/11	Specifies the 10-Gigabit Ethernet interface to be configured. Here: slot/port—Specifies the location of the interface.

Configuring FEC

Forward Error Correction (FEC) checks and recovers potential errors during long-range data transmission. The Cisco Catalyst 8530L-8S8X4Y and the Cisco Catalyst 8530L-8S2X2Y Edge Platforms have long range SFP, therefore FEC must be configured.

SUMMARY STEPS

1. **enable** *source-interface gigabitethernet slot/port*
2. **configure terminal**
3. **interface twentyfivegigabitethernet slot/port**
4. **fec { auto | cl108 | cl174 | off }**

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	enable <i>source-interface gigabitethernet slot/port</i> Example: Router# enable	Enables the privileged EXEC mode. If prompted, enter your password.
Step 2	configure terminal Example: Router# configure terminal	Enters the global configuration mode.
Step 3	interface twentyfivegigabitethernet slot/port Example: Router(config)# interface twentyfivegigabitethernet 0/0/16 4/11	Specifies the 10-Gigabit Ethernet interface to be configured. Here: slot/port—Specifies the location of the interface.
Step 4	fec { auto cl108 cl174 off } Example: Router(config)# interface twentyfivegigabitethernet 0/0/16 4/11	Configures FEC on the 25-Gigabit Ethernet interface. Following are the modes of the fec command: <ul style="list-style-type: none"> • auto— Enables FEC based on SFP type

	Command or Action	Purpose
		<ul style="list-style-type: none">• cl108— Enables clause108 <= RS-FEC(528,514)• cl74— Enables clause74 <= FC-FEC• disable— Disables FEC on interface <p>Note</p> <ul style="list-style-type: none">• The fec command is only applicable to 25G links.• For 10/25G dual-rate SFP, if the speed is changed from 25G to 10G, fec configuration should be removed first before speed change.

