

Port Physical Characteristics Configuration

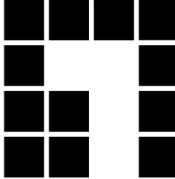
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Chapter 1 Port Physical Characteristics Configuration

1.1 Configuring the Ethernet Interface

1.1.1 Configuring Rate

The Ethernet rate can be realized through auto-negotiation or configuration on the interface.

Run the following command to configure the Ethernet rate:

Command	Purpose
speed { 100 1000 2500 10000 40000 auto }	Set the rate of fast Ethernet to 100M, 1000M, 2500M, 10G, 40G or auto-negotiation.
no speed	Resume the default settings—auto-negotiation.

Note:

The speed of the optical interface is fixed and does not support auto-negotiation. To force the speed, you need to configure it through commands and replace to the corresponding optical module. The specific description is as follows:

- 1) 10G port can be forced to 1000M, 10000M.
- 2) 40G port can be forced to 40000M.

1.1.2 Configuring the Duplex Mode of an Interface

By default, the TX port is in auto-negotiation mode, but can only be negotiated as full-duplex. The SFP port defaults to full-duplex mode and can only be in full-duplex mode:

Command	Purpose
duplex {full half auto}	Sets the duplex mode of the Ethernet.
No duplex	Resumes the default setting.

1.1.3 Configuring Flow Control on the Interface

When the interface is in full-duplex mode, the flow control is achieved through the PAUSE frame defined by 802.3X.

Command	Purpose
flow-control { on off auto }	Enable or disable the flow control on the interface.
no flow-control	Resume the default settings. The ports have no flow control.

Note:

The difference between “flow-control auto” and “flow-control on” is that the flow control frame is compulsory received. The flow control frame is forwarded when the peer negotiation is successful in “auto” mode.