

Interface Physical Characteristic Configuration

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1 Interface Physical Characteristic Configuration

1.1 Configure the Ethernet Interface

This section describes the procedure for configuring an Ethernet interface. The switch supports 10Mbps Ethernet and 100Mbps Fast Ethernet interfaces. Following are the Specific configuration. The first step is necessary, and the other steps is optional.

1.1.1 Select the Ethernet interface

In the global configuration mode, use the following command to enter the Ethernet interface configuration mode.

Command	Description
interface fastethernet [slot port]	Enter fast Ethernet configuration mode.
interface gigaethernet [slot port]	Enter gigabit Ethernet configuration mode.

Show interface fastethernet command can display the status of the Fast Ethernet interface. **show interface gigaethernet** command can display the status of the Gigabit Ethernet interface.

1.1.2 Configure Rate

Ethernet rate can be achieved through the self-negotiation, and it also can be configured under the interface.

Command	Description
Speed {10 100 1000 auto}	Set the rate of fast Ethernet as 10M, 100M, 1000M or negotiation.
No speed	Restore the default setting. Rate is self-negotiated.

Note:

The speed of the optical interface is fixed, such as: the rate of GBIC and GE-FX is 1000M, and the rate of FE-FX is 100M. If the optical interface **speed** command is followed by **auto**, then the interface can open the auto-negotiation function. Otherwise, the interface is mandatory and cannot be negotiated.

By default, the Ethernet interface can be set to auto-negotiate either half or full duplex. On the gigabit port, this command is not exist. Gigabit port duplex mode can always be set to auto.

Command	Description
duplex {full half auto}	Set the duplex mode of the Ethernet.
No duplex	Restore the default setting. Duplex mode is auto-negotiation.

1.1.3 Configure Interface Traffic Control

When the interface is full duplex mode, the traffic control is implemented through the PAUSE frame defined by 802.3X; when the interface is half duplex mode, it is implemented by back pressure.

Command	Description
flow-control [on off]	Enable/disable interface traffic control.
no flow-control	Restore the default setting: no flow control on the interface.