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Interface Physical Characteristic Configuration Commands

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Chapter 1 Interface Physical Characteristic Configuration Commands

1.1 Interface Physical Characteristic Configuration Commands

Interface physical characteristic configuration commands include:

- speed
- duplex
- flow-control

1.1.1 speed

Description

To set the speed rate of the port, run **speed**.

speed { *10* | *100* | *1000* | *auto* }

no speed

Parameter

Parameter	Description
<i>10, 100, 1000</i>	Configures the interface to transmit at 10M、100M、1000M。
<i>auto</i>	Turns on the Fast Ethernet auto-negotiation capability.

Default

TX interface is auto-negotiation operation, gigabit TX interface is 1000M, gigabit optical interface is 1000M.

Instruction

Use this command in layer-2 interface configuration mode.

Note:

The optical interface speed is fixed. The **auto** parameter following the **speed** command indicates that the auto-negotiation feature can be enabled on this interface. If there is no **auto** parameter behind the **speed** command, the auto-negotiation cannot be configured on the interface.

Example

The following example sets the interface g0/1 speed to 100M:

```
Switch (config)# interface GigaEthernet0/1
Switch (Switch_config_g0/1)# speed 100
```

1.1.2 duplex

Description

To configure the duplex operation on an interface, use the **duplex** command.

duplex {*auto* | *full* | *half*}

no duplex

Parameter

Parameter	Description
auto	Specifies the auto-negotiation operation.
full	Specifies the full-duplex operation.
half	Specifies the half-duplex operation.

Default

The **Tx** interface is for auto-negotiation operation, while the optical interface is for full-duplex operation.

Instruction

Use this command in the layer 2 configuration mode.

Note:

The duplex operation of the optical interface is fixed, that is, full-duplex operation.

Example

The following example configures interface g0/1 to full-duplex operation:

```
Switch (config)# interface GigaEthernet0/1  
Switch (config-if)# duplex full
```

1.1.3 flow control

Description

To configure flow control on an interface, use the **flow control** command. Use the **no** form of this command to disable the flow control.

flow-control{*on* | *off*}

no flow-control

Parameter

Parameter	Description
<i>on</i>	Enables flow control.
<i>off</i>	Disables flow control.

Default

Disabled

Instruction

Use this command in the layer 2 configuration mode.

Example

The following example enables the flow-control on an interface:

```
Switch (config-if)# flow-control on
```