

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 |
|---------------|---|
| 10, 100, 1000 | Configures the interface to transmit at 10M、100M、1000M. |
| auto | 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
```