

# Interface Physical Characteristic Configuration Commands

## Оглавление

|           |  |          |                |               |
|-----------|--|----------|----------------|---------------|
| CHAPTER 1 | INTERFACE  | PHYSICAL | CHARACTERISTIC | CONFIGURATION |
| COMMANDS  | 3  |          |                |               |
| 1.1.      | Interface Physical Characteristic Configuration Commands |          |                | 3             |
| 1.1.1.    | speed  |          |                | 3             |
| 1.1.2.    | duplex   |          |                | 4             |
| 1.1.3.    | flow control   |          |                | 4             |

# 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** {1000 | 10000 | 40000 | 100000 }

**no speed**

#### Parameter

| Parameter                     | Description  |
|-------------------------------|--|
| 1000   10000   40000   100000 | Configures the interface to transmit at 10M, 100M, 1000M, 10G, 40G, 100G |
| auto                          | Turns on the Fast Ethernet auto-negotiation capability.                  |

#### Default value

10GE interface is 10000, 40G interface is 40000, and 100G interface is 100000.

#### Usage guidelines

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** { *full* }

**no duplex**

#### Parameter

| Parameter | Description                          |
|-----------|--------------------------------------|
| full      | Specifies the full-duplex operation. |

#### Default value

The optical interface is for full-duplex operation.

#### Usage guidelines

Use this command in the layer 2 configuration mode.

#### Note:

The duplex operation of the optical interface is fixed and does not support the auto-negotiation;

The speed of the optical port is fixed and does not support auto-negotiation; if the speed is compelled, it needs to be realized by replacing the corresponding optical module with the command configuration. See the description in detail.

- 1) 10G can be compelled to 1000M, 10000M;
- 2) 40G can only be compelled to 40000M
- 3) 100G can be compelled to 40000M, 100000M

#### Example

The following example configures interface tg0/1 to full duplex.

```
Switch_config#int tg0/1
```

```
Switch_config_tg0/1#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            |
|-----------|------------------------|
| on        | Enables flow control.  |
| off       | Disables flow control. |

**Default value**

Disabled

**Usage guidelines**

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
```