



## Interface Physical Characteristic Configuration Commands

As our products undergo continuous development the specifications are subject to change without prior notice.

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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

#### Syntax

**speed** { *10* | *100* | *auto* } (T port)

**speed** { *100* | *1000* | *auto* } (SFP port)

**no speed**

To configure the speed for the interface, use the **speed** command.

#### Parameter

Parameter	Description
<i>10, 100, 1000</i>	Configures the interface speed as 10M, 100M, 1000M.
<i>auto</i>	Enable the auto-negotiation capability of the interface.

#### Default

TX interface is auto-negotiation operation, 100M optical interface speed is 100M, gigabit optical interface speed is 1000M.

#### Usage Guidelines

Use this command in the layer 2 interface configuration mode.

#### Note:

The speed of the optical interface is fixed. By default, the auto-negotiation function on the Gigabit optical interface is enabled. The combo port does not support forced gigabit and full duplex simultaneously. Ordinary TX interface does not support speed 1000.

#### Example

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

```
Switch_config# interface g0/1
Switch_config_g0/1# speed 100
```

### 1.1.2 duplex

#### Syntax

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

**no duplex**

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

#### Parameter

Parameter	Description
<b>auto</b>	Specifies the auto-negotiation operation.
<b>full</b>	Specifies the full-duplex operation.
<b>half</b>	Specifies the half-duplex operation.

#### Default

TX interface is auto-negotiation operation, optical interface is full-duplex operation.

#### Usage Guidelines

Use this command in the layer 2 configuration mode.

##### Note:

The duplex operation of the optical interface is fixed, that is full-duplex operation. The combo port doesn't support both gigabit and full-duplex operation. In half-duplex mode, back pressure occurs.

#### Example

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

```
Switch_config# interface g0/1
Switch_config_g0/1# duplex full
```

### 1.1.3 flow-control

#### Syntax

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

To configure flow control on an interface, use the flow control command.

#### Parameter

Parameter	Description
<b>on</b>	Enables flow control
<b>off</b>	Disables flow control.
<b>auto</b>	Auto-negotiation mode.

## Default

Disabled

## Usage Guidelines

Use this command in the layer 2 configuration mode.

### Note:

Both “flow-control auto” and “flow-control on” are forced to receive flow-control frame. But in “auto” mode, the flow-control frame is sent only after successful negotiation with the opposite end.

## Example

The following example enables the flow-control on the g0/1 interface:

```
Switch_config#int g0/1
Switch_config_g0/1#flow-control on
```