

Interface Physical Characteristic Configuration Commands

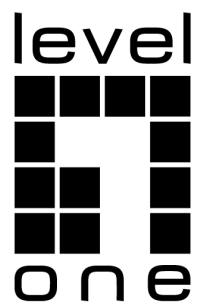


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Chapter 1 Interface Physical Characteristic Configuration Commands

1.1 Interface Physical Characteristic Configuration Commands

Interface physical characteristic configuration commands include:

- speed
- duplex
- flow-control

1.1.1 speed

Syntax

speed { 100 | 1000 | 2500 | 10000 | 40000 | auto }

no speed

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

Parameter

Parameter	Description
100	Configures the interface speed as 100M.
1000	Configures the interface speed as 1000M.
2500	Configures the interface speed as 2500M.
10000	Configures the interface speed as 10G.
40000	Configures the interface speed as 40G.
auto	Enable the auto-negotiation capability of the interface.

Default

TX interface is auto-negotiation operation, 10G optical interface speed is 10000M, 40G gigabit optical interface speed is 40000M.

Usage Guidelines

Use this command in the layer 2 interface configuration mode.

Note:

The speed of the optical interface is fixed, and the auto-negotiation function is not supported. To force the speed, configure and replace the corresponding optical module. The specific description is as follows:

- 1) 10G port can be forced to 1000M, 10000M
- 2) 40G port can only be forced to 40000M

Example

The following example sets the interface tg0/0/1 speed to 1000M:

```
Switch(config)#interface tg0/0/1
```

```
Switch(config-tg0/0/1)#speed 1000
```

1.1.2 duplex

Syntax

duplex { *auto* | *full* }

no duplex

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

Parameter

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

Example

The following example configures interface tg0/0/1 to full-duplex operation:

```
Switch(config)#interface tg0/0/1
```

```
Switch(config-tg0/0/1)#duplex full
```

1.1.3 flow-control

Syntax

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

no flow-control

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

Parameter

Parameter	Description
on	Enables flow control
off	Disables flow control.
auto	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 g0/0/1 interface:

```
Switch(config)#interface g0/0/1
Switch(config-g0/0/1)#flow-control on
```