Interface Physical Characteristic
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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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10, 100, 1000</td>
<td>Configures the interface to transmit at 10M, 100M, 1000M.</td>
</tr>
<tr>
<td>auto</td>
<td>Turns on the Fast Ethernet auto-negotiation capability.</td>
</tr>
</tbody>
</table>

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 GigEthernet0/1
Switch (config)# 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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>auto</td>
<td>Specifies the auto-negotiation operation.</td>
</tr>
<tr>
<td>full</td>
<td>Specifies the full-duplex operation.</td>
</tr>
<tr>
<td>half</td>
<td>Specifies the half-duplex operation.</td>
</tr>
</tbody>
</table>

**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 GigaEthemet0/1
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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>on</td>
<td>Enables flow control.</td>
</tr>
<tr>
<td>off</td>
<td>Disables flow control.</td>
</tr>
</tbody>
</table>
**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