Chapter 8: Port Physical Configuration

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Chapter 1 Port Physical Characteristics Configuration

1.1 Setting the Ethernet Interface

1.1.1 Setting the Rate

The Ethernet rate can be realized not only through auto-negotiation but also through interface configuration.

Command	Function
Speed {**10**|**100**|**auto**} (TX port) **speed** {**100	1000	auto** }（Optical port）	Sets the rate of fast Ethernet to 10M, 100M, 1000M or auto-negotiation.
No speed	Resumesthe default settings. The rate is auto-negotiation.

Note:

The speed of the optical interface is fixed. If the auto parameter is behind the speed command, it means that you can enable the auto-negotiation function on the optical interface. Otherwise, you cannot enable the auto-negotiation function on the optical interface. The gigabit optical interface enables auto-negotiation function by default. The gigabit combo port does not support configuration of speed 1000 and force full duplex mode simultaneously.

1.1.2 Setting the Duplex Mode of an Interface

By default, the Ethernet interface can be auto, half duplex or full duplex. The gigabit combo port does not support configuration of speed 1000 and force full duplex mode simultaneously.

Command	Function
duplex {**full**	**half**	**auto**}	Sets the duplex mode of an Ethernet interface.
No duplex	Resumes the default settings. The duplex mode is auto-negotiation.

1.1.3 Setting Flow Control on an Interface

When an interface is in full duplex mode, flow control is realized through the 802.3X-defined PAUSE frame; when an interface is in half duplex mode, flow control is realized through backpressure.

Command	Usage Guidelines
**flow-control {on	off	auto}**	Configuring Flow Control on the Interface
no flow-control	Resumes the default settings, that is, there is no flow control on an interface.

Note:

The difference between "flow-control auto" and "flow-control on" is in the "auto" mode the device sends flow control frame only when it negotiates successfully with the opposite end as the system is compelled to receive flow control frame in both modes.Port