

Chapter3: Port Configuration



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Chapter 3 Port Configuration

3.1 Ethernet Port Configuration Overview

The gigabit port of the OLT supports 10/100/1000Base-T. The port can work in half-duplex and full-duplex modes. It can negotiate with other network equipment to determine the working mode and rate, and automatically select the most suitable working mode and rate. Simplified system configuration and management. The 10G optical port supports 1000M, 10000Mbps full-duplex speed mode. The PON port has a fixed rate and does not support rate configuration

3.2 Configure Ethernet Port

3.2.1 Enter Interface Configuration Mode

Operation	Command	Remarks
Enter global configuration mode	system-view	
Enter interface configuration mode.	interface { { ethernet <i>interface-num</i> } <i>interface-name</i> }	

3.2.2 Enter Interface Range Mode

Operation	Command	Remarks
Enter global mode	system-view	
Enter interface range	interface range { { ethernet	

mode.	<i>interface-list</i> } <i>interface-name</i> }	
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【Example】

! Enter interface range configuration mode, this range includes Ethernet 1~3

[GPON]interface range ethernet 0/0/1 to e 0/0/3

[GPON-port-range]

3.2.3 Basic Port Configuration

Operation	Command	Remarks
Enter global mode	system-view	
Enter interface mode	interface { { ethernet <i>interface-num</i> } <i>interface-name</i> }	
Disable specific port	shutdown	
Enable specific port	undo shutdown	
Configure speed of a port	speed { 10 100 1000 10000 auto }	
Configure default duplex of a port	undo speed	
Configure duplex of a port	duplex { full half }	
Configure priority of a port	priority <i>priority-num</i>	
Configure default priority of a port	undo priority	
Configure port description	description <i>description-list</i>	
Delete port description	undo description	
Enable ingress filtering	ingress filtering	

Disable ingress filtering	undo ingress filtering	
Enable ingress acceptable-frame	ingress acceptable-frame { all tagged }	
Disable ingress acceptable-frame	undo ingress acceptable-frame	
Enable Ethernet port flow control	flow-control	
Disable Ethernet port flow control	undo flow-control	
Display port flow control function	display flow-control interface [ethernet <i>interface-num</i>]	

3.2.4 Link Type of Ethernet Ports

An Ethernet port can operate in one of the three link types:

Access: An access port only belongs to one VLAN, normally used to connect user device. Trunk: A trunk port can belong to more than one VLAN. It can receive/send packets from/to multiple VLANs and is generally used to connect another GPON. The packet sent from this port can be with or without the tag label.

Hybrid: A hybrid port can belong to multiple VLANs, can receive, or send packets for multiple VLANs, used to connect either user or network devices. It allows packets of multiple VLANs to be sent with or without the tag label

Operation	Command	Remarks
Enter global mode	system-view	
Enter interface mode	interface { { ethernet <i>interface-num</i> } <i>interface-name</i> }	

Set port link type	port mode { trunk hybrid access }	
Configure default link type	undo port mode	The default port type is Hybrid

【Example】

! Set Ethernet port 1 as a trunk port

[GPON-ethernet-0/0/1]port mode trunk

3.2.5 Configure Default VLAN

Operation	Command	Remarks
Enter global mode	system-view	
Enter interface mode.	interface { { ethernet <i>interface-num</i> } <i>interface-name</i> }	
Set port default vlan id	port default vlan <i>vlan-id</i>	
Restore port default vlan id	undo port default vlan	

【Example】

! Set the default VLAN ID of Ethernet 0/1 to 5

[GPON-ethernet-0/0/1] port default vlan 5

3.2.6 Add Port to a Vlan

Operation	Command	Remarks
Enter global mode	system-view	
Enter interface mode	interface { { ethernet interface-num } interface-name }	
Configure the port mode as access	port mode access	
Add the Access port to the specified vlan	port default vlan vlan-id	
Configure the port mode as Hybrid	port mode hybrid	
Add Hybrid port to specific VLAN and keep the packet VID	port hybrid tagged vlan { all vlan-list }	
Add Hybrid port to specific VLAN and strip the packet VID	port hybrid untagged vlan { all vlan-list }	
Delete Hybrid port from specific VLAN	undo port hybrid vlan { all vlan-list }	
Configure the port mode as Trunk	port mode trunk	
Add Trunk port to specific VLAN	port trunk allowed vlan { all vlan-list }	
Delete Trunk port from specific VLAN	undo port trunk allowed vlan { all vlan-list }	

3.2.7 Display Port Information

Operation	Command	Remarks
Display port information	display interface [ethernet <i>interface-num</i>]	
Display summary information of all ports	display interface brief	
Display port sfp information	display interface sfp [ethernet <i>interface-num</i>]	

3.2.8 Display and Clear Port Statistics

Operation	Command	Remarks
Display port statistics	display statistics interface [ethernet <i>interface-num</i>]	
Display all port statistics	display statistics interface brief	
Display real-time sending and receiving rates and band utilization	display utilization interface	
Enter global mode	system-view	
Clear port statistics	clear interface [ethernet <i>interface-num</i>]	
Enter interface mode	interface { { ethernet <i>interface-num</i> } <i>interface-name</i> }	

Clear port statistics	clear interface	
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