

# Configuration Guide

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## Monitoring Traffic

T Series Product

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# 1 Traffic Monitor

With Traffic Monitor function, you can monitor the traffic on the switch, including:

- Traffic Summary
- Traffic Statistics in Detail

## 1.1 Using the GUI

### 1.1.1 Viewing the Traffic Summary

Choose the menu **Switching > Traffic Monitor > Traffic Summary** to load the following page.

**Figure 1-1 Traffic Summary**

Auto Refresh

Auto Refresh:
☐ Enable
☒ Disable

Refresh Rate:
sec (3-300)

Apply

Traffic Summary

UNIT:
LAGS

Select	Port	Packets Rx	Packets Tx	Octets Rx	Octets Tx	Statistics
<input type="checkbox"/>	1/0/1	0	0	0	0	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/2	0	0	0	0	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/3	0	0	0	0	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/4	0	0	0	0	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/5	0	0	0	0	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/6	0	0	0	0	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/7	0	0	0	0	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/8	6	29	484	2,603	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/9	0	0	0	0	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/10	0	0	0	0	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/11	0	0	0	0	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/12	938,282	23,091	217,247,538	14,778,507	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/13	0	0	0	0	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/14	50	243	3,622	44,624	<a href="#">Statistics</a>
<input type="checkbox"/>	1/0/15	0	0	0	0	<a href="#">Statistics</a>

All
Refresh
Clear
Help

Follow these steps to view the traffic summary of each port:

- 1) To get the real-time traffic summary, enable auto refresh in the **Auto Refresh** section, or click **Refresh** at the bottom of the page.

**Auto Refresh:** With this option enabled, the switch refreshes the web timely.

**Refresh Rate:** Specify the refresh interval in seconds.

- 2) In the **Traffic Summary** section, click **1** to show the information of the physical ports, and click **LAGS** to show the information of the LAGs.

Packets Rx:	Displays the number of packets received on the port. Error packets are not counted in.
Packets Tx:	Displays the number of packets transmitted on the port. Error packets are not counted in.
Octets Rx:	Displays the number of octets received on the port. Error octets are counted in.
Octets Tx:	Displays the number of octets transmitted on the port. Error octets are counted in.
Statistics:	Click this button to view the detailed traffic statistics of the port.

### 1.1.2 Viewing the Traffic Statistics in Detail

Choose the menu **Switching > Traffic Monitor > Traffic Statistics** to load the following page.

**Figure 1-2 Traffic Statistics**

Auto Refresh

Auto Refresh:
☐ Enable
☒ Disable

Refresh Rate:
sec (3-300)

Apply

Port Select

Port 

Select

UNIT:  LAGS

2 4 6 8 10 12 14 16 18 20 22 24 26 28

1 3 5 7 9 11 13 15 17 19 21 23 25 27

Unselected Port(s)

Selected Port(s)

Not Available for Selection

Statistics

	Received		Sent
Broadcast	401,633	Broadcast	2,592
Multicast	517,435	Multicast	2,727
Unicast	19,214	Unicast	17,772
Jumbo	0	Jumbo	0
Alignment Errors	0	Collisions	0
UndersizePkts	0		
Pkts64Octets	125,718		
Pkts65to127Octets	201,096		
Pkts128to255Octets	305,043		
Pkts256to511Octets	251,009		
Pkts512to1023Octets	55,416		
Pkts1024to1518Octets	0		

Refresh

Help

Follow these steps to view the traffic statistics in detail:

- 1) To get the real-time traffic statistics, enable auto refresh in the **Auto Refresh** section, or click **Refresh** at the bottom of the page.

Auto Refresh:	With this option enabled, the switch refreshes the web timely.
Refresh Rate:	Specify the refresh interval in seconds.

- 2) In **Port Select**, select a port or LAG, and click **Apply**.
- 3) In the **Statistics** section, view the detailed information of the selected port or LAG.

**Received:**

Displays the detailed information of received packets.

Broadcast: Displays the number of valid broadcast packets received on the port. Error frames are not counted in.

Multicast: Displays the number of valid multicast packets received on the port. Error frames are not counted in.

Unicast: Displays the number of valid unicast packets received on the port. Error frames are not counted in.

Jumbo: Displays the number of valid jumbo packets received on the port. Error frames are not counted in.

Alignment Errors: Displays the number of the received packets that have a Frame Check Sequence (FCS) with a non-integral octet (Alignment Error). The size of the packet is between 64 bytes and 1518 bytes.

UndersizePkts: Displays the number of the received packets (excluding error packets) that are less than 64 bytes long.

Pkts64Octets: Displays the number of the received packets (including error packets) that are 64 bytes long.

Pkts65to127Octets: Displays the number of the received packets (including error packets) that are between 65 and 127 bytes long.

Pkts128to255Octets: Displays the number of the received packets (including error packets) that are between 128 and 255 bytes long.

Pkts256to511Octets: Displays the number of the received packets (including error packets) that are between 256 and 511 bytes long.

Pkts512to1023Octets: Displays the number of the received packets (including error packets) that are between 512 and 1023 bytes long.

PktsOver1023Octets: Displays the number of the received packets (including error packets) that are over 1023 bytes.

**Sent:**

Displays the detailed information of sent packets.

Broadcast: Displays the number of valid broadcast packets transmitted on the port. Error frames are not counted in.

Multicast: Displays the number of valid multicast packets transmitted on the port. Error frames are not counted in.

Unicast: Displays the number of valid unicast packets transmitted on the port. Error frames are not counted in.

Jumbo: Displays the number of valid jumbo packets transmitted on the port. Error frames are not counted in.

Collisions: Displays the number of collisions experienced by a half-duplex port during packet transmissions.

## 1.2 Using the CLI

On privileged EXEC mode or any other configuration mode, you can use the following command to view the traffic information of each port or LAG:

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**show interface counters** [ **fastEthernet** port | **gigabitEthernet** port | **ten-gigabitEthernet** port | **port-channel** port-channel-id ]

*port*: The port number.

*port-channel-id*: The group number of the LAG.

If you enter no port number or group number, the information of all ports and LAGs will be displayed.

The displaying information includes:

**Broadcast**: Displays the number of valid broadcast packets received and transmitted on the port. Error frames are not counted in.

**Multicast**: Displays the number of valid multicast packets received and transmitted on the port. Error frames are not counted in.

**Unicast**: Displays the number of valid unicast packets received and transmitted on the port. Error frames are not counted in.

**Jumbo**: Displays the number of valid jumbo packets received and transmitted on the port. Error frames are not counted in.

**Alignment Errors**: Displays the number of the received packets that have a Frame Check Sequence (FCS) with a non-integral octet (Alignment Error). The size of the packet is between 64 bytes and 1518 bytes.

**UndersizePkts**: Displays the number of the received packets (excluding error packets) that are less than 64 bytes long.

**Pkts64Octets**: Displays the number of the received packets (including error packets) that are 64 bytes long.

**Pkts65to127Octets**: Displays the number of the received packets (including error packets) that are between 65 and 127 bytes long.

**Pkts128to255Octets**: Displays the number of the received packets (including error packets) that are between 128 and 255 bytes long.

**Pkts256to511Octets**: Displays the number of the received packets (including error packets) that are between 256 and 511 bytes long.

**Pkts512to1023Octets**: Displays the number of the received packets (including error packets) that are between 512 and 1023 bytes long.

**PktsOver1023Octets**: Displays the number of the received packets (including error packets) that are over 1023 bytes.

**Collisions**: Displays the number of collisions experienced by a port during packet transmissions.

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## 2 Appendix: Default Parameters

Table 2-1 Traffic Statistics Monitoring

Parameter	Default Setting
Traffic Summary	
Auto Refresh	Disable
Refresh Rate	10 seconds
Traffic Statistics	
Auto Refresh	Disable
Refresh Rate	10 seconds