



DATASHEET

## TAP Aggregation-Network Visibility and Security

Model: T5800-8TF12S

REV.1.0  
2018

## Overview

The FS T5800 TAP (Test Access Port) Series Switches are high performance Pizza box TAP switches to meet next generation Carrier and Enterprise network requirements for traffic analysis and traffic monitoring. They support various TAP functions, including M: N traffic replication, symmetrical HASH, traffic filtering and packets editing. T5800 series TAP supports multiple management mechanism for rapid and flexible service deployment.

## Primary Features And Benefits

### I. TAP Function Highlights

- Flow Copy / aggregation / integration
- M:N traffic replication
- Ingress flow-based packet distribution and egress packet filter
- Time stamps and mark source port by VLAN
- Mark source port by VLAN
- Hash based on IP 5-Tuple to ensure session consistency flow output
- Supports L2~L4 header based packet identification, filtering and replication
- Editing the IPDA and MACDA/MACSA and VLAN of packets
- Supports sFlow
- TACAS+ and RADIUS authentication
- Console, IP, SNMP, SSH, RPC-API and WebUI management

### II. High Availability

- Hot-pluggable power modules
- Power module supports 1+1 redundancy
- Support N+1 fans redundancy and speed intelligent adjustment
- Real-time environment monitoring for chipset temperature, status of fan and power, etc.

### III. Green and Energy Saving

- Automatic temperature based fan swapped control and power consumption adjustment

## Specification

Ports	T5800-8TF12S
1000M base-T ports	8
SFP 1000M Ports	8
SFP+ Ports	12
Max. 10GbE Ports	12
100/1000 Mgmt Port	1
RS-232 Serial Port	1 (RJ 45)
General	
CPU	PowerPC P1010
Forwarding Technology	Store and Forward/Cut-Through
Throughput	240Gbps
Packets/Sec	178.57Mpps
Latency	2.8us
System Memery	1 GB
Flash	2 GB
Packet Buffer	3 MB
Max. TAP Groups	512

General

T5800-8TF12S

Max. Linkagg Number	31
Max. Linkagg Members	16
Max. Flow Entries	4K

Power Requirements

Max. Power Consumption	<47W
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Enviromental

Operating Temperature	0 to 45 °C (Long term) -5 to 55 °C (Short term)
Storage Temperature	-40 to 70 °C
Relative Humidity	0 to 95% (non-condensing)

Physical

Hot Plug Power Supplies	2 (1+1 redundant)
Hot Plug Fans	4 (3+1backup)
Airflow	Front-Rear
Size (HxWxD)	1.73x17.5x132.2 in.

## Product Features and Benefits

Features

Benifits

Basic

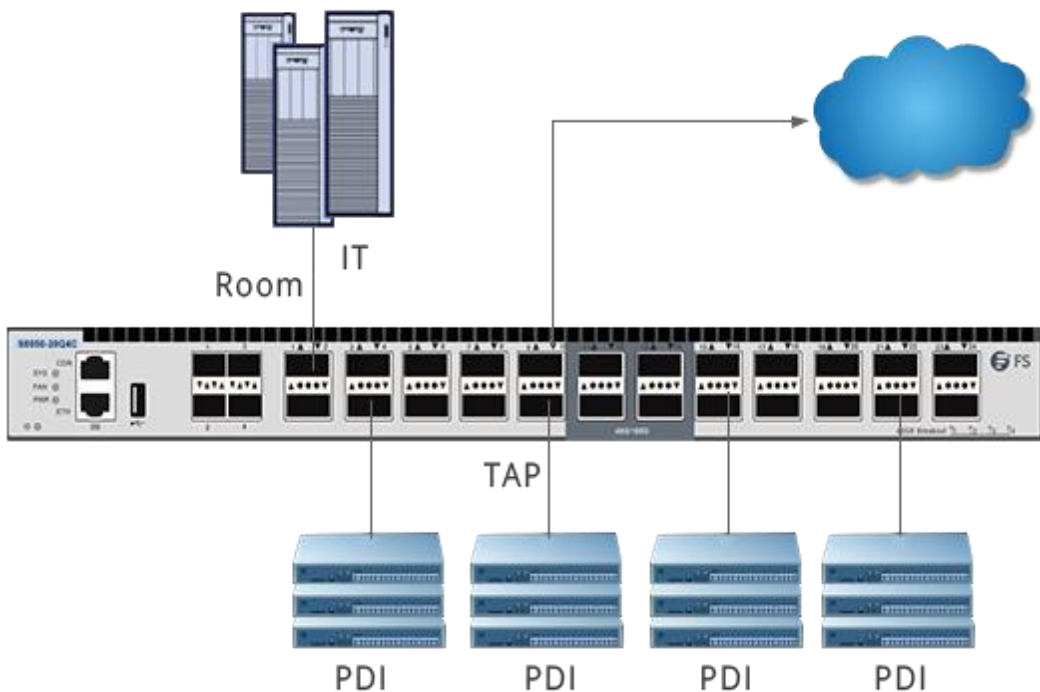
Basic functions	<ul style="list-style-type: none"> <li>➤ M:N (from M source ports to N destiation ports).</li> <li>➤ Support Ingress and Egress ACL.</li> <li>➤ Support matching The L2, L3, L4, TCP/IP quintuple.</li> <li>➤ Support ACL action: copy/forwding/discarding.</li> <li>➤ Support remarking the ingress VLAN tag.</li> <li>➤ Support link aggration port to be a TAP ingress port or egress port.</li> </ul>
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Features	Benefits
<b>Basic</b>	
Basic Functions	<ul style="list-style-type: none"> <li>➤ Support stripping or editing the vlan tag</li> <li>➤ Support editing MACDA, MACSA and IPDA</li> <li>➤ Support making a copy of the flow</li> <li>➤ Support Sflow</li> </ul>
Load Balance	<ul style="list-style-type: none"> <li>➤ Support using HASH by session</li> <li>➤ Support using HASH by TCP/IP quintuple</li> <li>➤ Support using HASH by MAC address</li> </ul>
<b>Management</b>	
Management Interface	<ul style="list-style-type: none"> <li>➤ Support 4 level privilege control of CLI</li> <li>➤ Support console management</li> <li>➤ Support Telnet management</li> <li>➤ Support SSH management</li> <li>➤ Support WebUI management</li> <li>➤ Support SNMP Get/Set/Trap</li> <li>➤ Support Open API</li> </ul>
Security	<ul style="list-style-type: none"> <li>➤ Support TACAS+</li> <li>➤ Support RADIUS</li> <li>➤ Support local username and password</li> <li>➤ Support CPU protection</li> </ul>
System Management	<ul style="list-style-type: none"> <li>➤ Support direction and document management</li> <li>➤ Support upload and download files via TFTP/FTP</li> <li>➤ Support different system images based on same Uboot</li> </ul>
Applications	<ul style="list-style-type: none"> <li>➤ Support NTP</li> <li>➤ Support Syslog and Log Server</li> <li>➤ Support debugging</li> </ul>
<b>Platform</b>	
Interface	<ul style="list-style-type: none"> <li>➤ Support duplex full/half/auto</li> <li>➤ Support maximum frame size 12800B</li> </ul>

# Applications

## Application in Carrier network

Generally, TAP devices can be used to assist DPI (Deep Packet Inspection) in carrier networks. TAP is applied to forward flows of carrier at internet access point and sends a mirrored copy of the packet flow to DPI device at the same time. The DPI device is for traffic analysis, once a virus on website or illegal information has been monitored, the flows will be blocked by a five elements table sent from management channel between DPI and TAP.





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