

S6700-48TF-8QF-H 100G Uplink 48 Port 25G Data Center Switches



- 4 8 \* 2 5G/10G SFP2 8 optical ports
- 8 \* 100 G/40 G QSFP2 8 uplink optical port
- Marvell chips with more stable and powerful performance
- High end chips that can significantly improve network data processing speed
- Supports one-stop management on the Apollo cloud platform
- Support cloud platform for resource visualization management of switches and attached PD devices, making operation and maintenance management simpler



Description

Overview

It adopts advanced hardware architecture with 48\*25GE access ports and multiple 100GE uplinks



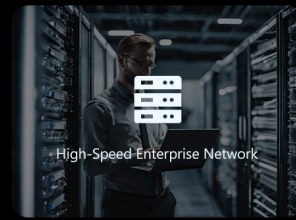
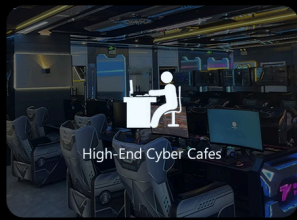
|                                   |                               |                                            |
|-----------------------------------|-------------------------------|--------------------------------------------|
| <b>Switch backplane bandwidth</b> | <b>Packet forwarding</b>      | <b>switch port</b>                         |
| 4Tbps                             | 2000Mpps                      | 4 8 * 2 5G/1 0G SFP2 8 optical port        |
| <b>Working Humidity</b>           | <b>Dimensions (W × D × H)</b> | 8 * 100 G/40 G QSFP2 8 uplink optical port |
| 10% ~ 90% RH non-condensing       | 440mm × 320mm × 44mm          |                                            |

# S6700-48TF-8QF

100G Uplink 48 Port 25G Data Center Switches

## APPLICABLE SCENARIOS

S6700-48TF-8QF can also be deployed as aggregation or core switches for enterprise campus LAN networks.



## HIGHLIGHT FEATURES

- 48 \* 25G/10G SFP2 8 optical ports
- 8 \* 100G/40 G QSFP2 8 uplink optical port



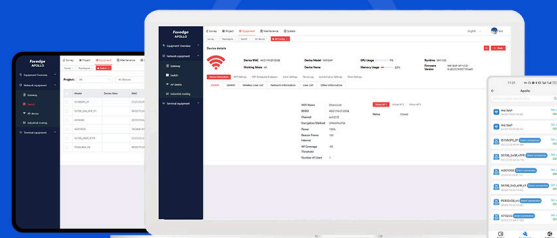
## HIGH END CHIPS

- High end chips with more stable and powerful performance
- High end chips that can significantly improve network data processing speed

ForEdge

## APOLLO CLOUD SYSTEM MANAGEMENT PLATFORM

Supports one-stop management on the Apollo cloud platform.





Specifications

| Hardware Specification: |                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Interface       | <ul style="list-style-type: none"><li>● 48 * 25 G/ 10 G SFP28 optical interfaces</li><li>● 8 * 100 G/ 40 G QSFP28 optical interfaces</li><li>● 1 * Console port</li><li>● 1 * Management port</li><li>● 1 * USB port</li></ul> |
| Redundant Design        | <ul style="list-style-type: none"><li>● Support 2 pluggable power, 1 + 1 backup mode</li><li>● Support 2 pluggable fans</li></ul>                                                                                              |
| Switching Capacity      | ● 4Tbps                                                                                                                                                                                                                        |
| Packets Forwarding      | ● 2000 Mpps                                                                                                                                                                                                                    |
| RAM                     | ● 4 GB                                                                                                                                                                                                                         |
| FLASH                   | ● 64MB                                                                                                                                                                                                                         |
| EMMC                    | ● 3.5 GB                                                                                                                                                                                                                       |
| Port Buffer             | ● 32 MB                                                                                                                                                                                                                        |
| Power Supplier          | ● DC: -40V~-57V, rated voltage -48V                                                                                                                                                                                            |

|                                 |                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | <ul style="list-style-type: none"> <li>● AC: 100V~240V, rated voltage 110V/220V</li> <li>● High voltage DC: 190-400V, rated voltage 240V/336V</li> </ul>                                                                                                                                                                    |
| Dimension                       | ● WxDxH : 440×420×44mm                                                                                                                                                                                                                                                                                                      |
| Environment                     | <ul style="list-style-type: none"> <li>● Operating temperature : 0 °C~ 40 °C</li> <li>● Storage temperature : -40°C~ 70°C</li> <li>● Operating humidity : 10% ~ 90% RH non condensing</li> <li>● Storage humidity : 10% ~ 90% RH non condensing</li> </ul>                                                                  |
| Safety Regulations              | ● CE/ ROHS/ FCC                                                                                                                                                                                                                                                                                                             |
| <b>Software Specifications:</b> |                                                                                                                                                                                                                                                                                                                             |
| <b>VLAN</b>                     | Support 4K VLAN<br>Support 1:1 and N: 1 802.1p based VLAN Mapping<br>Support VLANs based on MAC, protocol, and IP<br>Support Guest VLAN, Voice VLAN<br>Support QinQ, selective QinQ                                                                                                                                         |
| <b>IP</b>                       | Support 256K IPv4/64K IPv6<br>Support IPv4/IPv6 static routing<br>Support GRE tunnel<br>Support ECMP<br>Support policy routing<br>Support OSPF, IS-IS, BGP and other IPv4 Dynamic routing protocols<br>Support OSPFv3, IS-ISv6, BGP4+ and other IPv6 Dynamic routing protocols<br>Support IGMP, IGMP Snooping, MLD Snooping |
| <b>VXLAN</b>                    | Supports VXLAN Layer 2 switching, routing switching, and Layer 3 gateway<br>Support EVPN VXLAN<br>Support IPv6 VXLAN over IPv4                                                                                                                                                                                              |
| <b>EVPN</b>                     | Support EVPN<br>Support MP-BGP, EVPN's RR function<br>Support symmetric IRB                                                                                                                                                                                                                                                 |
| <b>Reliable Features</b>        | Support STP/RSTP/MSTP<br>Support BPDU protection, Root protection, and Loop protection; Support for BPDU Tunnel<br>Support BPDU tunnel<br>Support BFD session binding Static routing, VRRP, OSPF, IS-IS, BGP, RIP                                                                                                           |
| <b>Stacking</b>                 | Supports horizontal virtualization technology and unified management of multiple devices                                                                                                                                                                                                                                    |
| <b>IPv6</b>                     | Support ND (Neighbour Discovery), support PMTU<br>Support time period based ACLs<br>Support IPv6 Ping, Traceroute<br>Support dual stacks of IPv4 and IPv6;                                                                                                                                                                  |

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | <p>Support multiple tunnel technologies</p> <p>Supports ACLs based on source IPv6 address, destination IPv6 address, layer 4 port, protocol type, etc</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Software Specifications:</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>QoS</b>                      | <p>Support L2-L4 packet filtering function, providing filtering based on MAC, IP, port, protocol, IP ToS, 802.1P priority, VLAN ID, SVLAN ID, VLAN range, etc.</p> <p>Support time period based ACLs</p> <p>Support Bandwidth throttling based on stream/VLAN (single speed and dual color)</p> <p>Support streaming of single speed tricolor and dual speed tricolor Support flow based priority scheduling and priority mapping</p> <p>Support scheduling algorithms such as SP/PQ, DRR, SP/PQ+DRR, etc</p> <p>Supports 8 QoS hardware priority queues per port</p> <p>Support 802.1p , DSCP/ToS priority</p> <p>Support queue cache management strategies such as end of queue discarding and WRED</p> |
| <b>Security Features</b>        | <p>Support hierarchical management of user permissions and hierarchical protection of command lines</p> <p>Support 802.1x,RADIUS,TACACS+</p> <p>Support user level quantity limit</p> <p>Support user binding (port, source MAC, source IP address access control)</p> <p>Support SNMP login terminal restrictions</p> <p>Support SSH2.0</p> <p>Support IP source guard</p> <p>Support black hole MAC</p> <p>Supports MAC address limit</p> <p>Support anti ARP and DDoS attacks</p>                                                                                                                                                                                                                      |
| <b>Maintenance</b>              | <p>Support Console,Telnet,SSH protocols</p> <p>Support SNMP V1/V2/V3,support standard MIB</p> <p>Support Netconf management protocol,support REST API</p> <p>Support for the gNMI protocol,support Telemetry protocol</p> <p>Support FTP/TFTP</p> <p>Support unified management of logs, alarms, and debugging information Support user action logs</p> <p>Support RMON</p> <p>Supports port mirroring and stream mirroring</p> <p>Supports BootROM upgrade and remote online upgrade, supports hot patches</p>                                                                                                                                                                                           |

#### Additional information

|        |                    |
|--------|--------------------|
| Models | S6700-48TF-8QF-H   |
| Series | Data Center Series |



Related products



S6700-64CQ 64-Port 400G Data  
Center Managed Ethernet Switch



S6700-32QF 32-Port 100G Data  
Center Managed Ethernet Switch



S6700-32CQ 32-Port 400G Data  
Center Managed Ethernet Switch



S6700-24TF-2QF 100G uplink 24  
port 10G Managed Switches