

# Data Center Switch

## S6750-48X6QB-AC



### Product Overview

S6750-48X6QB-AC comes with 48 x 10G (SFP+) + 6 x 40G (QSFP+) interfaces, delivers high performance, high port density, and low latency for cloud-oriented data center networks and high-end campus networks. It supports an extensive range of data center features, Software-Defined Networking (SDN) capabilities, and high-performance stacking technologies.

S6750-48X6QB-AC enables you to build scalable, simplified, open, and secure networks.

### Product Highlights

#### ■ High Reliability

Provides enhanced Ethernet reliability technologies such as STP/RSTP/MSTP, at millisecond-level protection switchover, as well as LB(loopback check) to ensure link-level reliability.

Support 1+1 redundant hot swappable power supply and an AC power supply and a DC power can be used simultaneously.

#### ■ High Switching Capacity

Capacity with 1.44Tbps to provide all ports with non-stop forwarding, makes sure to build a reliable, sustainable high speed IP networks, can meet the high density, high bandwidth access and aggregation application scenarios of data center and campus network.

#### ■ Powerful Services Support

The S6750(B) supports IGMP snooping, IGMP proxy, IGMP filter, and IGMP fast leave for robust multicast. It offers wire-speed replication of multicast packets between VLANs, and multicast load balancing among trunk member interfaces to meet requirements for IPTV services and other multicast services.

#### ■ Superior Quality of Service

It supports traffic classification based on abundant criteria such as MAC/IP address, Layer 4 TCP/UDP port number, protocol, port and VLAN.

## Product Specifications

Model Number	S6750-48X6QB-AC
Ports	48×1/10GE SFP+ 6×10/40GE QSFP+
Throughput	1000Mpps
Switching capacity	1.44Tbps
VLAN	4K VLANs; 1:1 & 2:2 VLAN Mapping; QinQ, selective QinQ; MAC based VLAN; Protocols based VLAN Guest VLAN; Voice VLAN
Port trunk	LACP; 32 trunk groups at most, up to 8 ports in each group
MAC	128K MAC; Static MAC; Dynamic MAC;
IP routing	Static routing; OSPF;ISIS;BGP,GRE
Multicast	IGMP snooping, IGMP filter, IGMP Proxy and IGMP fast leave; Multicast replication between VLANs; PIM-SM;PIM-DM; Source Specific Multicast (SSM)
Reliability	STP, RSTP, MSTP;R-Link protection, VRRP, Trunk, Redundancy power BPDU Guard, Loop protection, Root protection;
QoS/ACL	Packet filtering at Layer 2 to Layer 4, filtering out invalid frames based on source MAC address, destination MAC address, source IP address, destination IP address, TCP/UDP port number, protocol type and VLAN ID
	Time range ACL
	Rate limiting with granularity at 64Kbps
	Port-based traffic policing and two-rate three-color CAR
	8 queues on each port
	Flexible scheduling algorithms, including SP/PQ、DRR、SP/PQ+DRR
Security	Re-marking of the 802.1p priority and DSCP priority
	User privilege management and password protection
	DoS attack defense, ARP attack defense, IP source guard
	Binding of the IP address, MAC address, interface
	Port isolation, Port security
	Black hole MAC address entries
	Limit on number of learned MAC addresses
	802.1x authentication, RADIUS authentication
SSH v2.0	
Data Center feature	CPU protection
	EVPN,VXLAN,M-Lag
Energy saving	Dynamic fan speed adjusting
Management & maintenance	Port mirroring and Flow-based mirroring
	Configuration via CLI, Telnet, Console port
	SNMP v1/v2/v3, RMON, LLDP, Cluster network, Syslog, Traplog
	Third-Party GUI management platform based on SNMP
	Loading and upgrade via FTP、TFTP
Operating environment	Port loopback detection
	Operation temperature: 0℃ to 55℃ Relative humidity:10%-90% (non-condensing)

Input voltage	AC: Rated voltage range:100V to 240V AC, 50/60Hz Maximum voltage range:90V to 264V AC, 50/60Hz
	DC: Rated voltage range: -48V to -60V DC Max voltage range: -36V to -72V DC
Dimensions (W×D×H) mm	440×400×44
Power consumption	≤180W
Weight(GW)	<8 kg