

32X100 QSFP28-DD

S6750-2X32CQM-AC is a high port density switch with 32 x QSFP28 ports in a single 1RU and single packet forwarding engine, suitable for Data centers that need unprecedented speed.



With 32 QSFP28-DD 100Gbps ports it is ideally suited for deployment at leaf/spine in data centers, where high performance is the most important, or, with 6.4Tbps total performance - as ultra-powerful appliance.

Primarily packaged to meet the requirements of deployments that require smaller form factor and access to all network ports and management ports from the front side of the product. Be used to provide 32 x 100GbE + 2 x 10GbE ports solution.

In the interest of achieving the smallest possible form factor, minimum cost and the lowest system power consumption.

In order to be able to fit all access, uplink and data ports on the front side of a 1U system, all data plane connectivity to it is provided through QSFP28 sockets. Each QSFP28 socket can operate as a single 100GbE port.

The total system contains a CPU subsystem with 8GB of DDR4 RAM and 64GB of M.2 SSD storage by the default setting. The CPU is connected to a set of central management processors that reside elsewhere in the system through an out of band control plane Ethernet connection.

MAIN APPLICATION

- Enterprise
- Campus Aggregation and Core
- Data Center Aggregation and Core
- Spine/Leaf Switches

HARDWARE SPECIFICATION

Function/parameter	S6750-2X32CQM-AC
Marvell Chipset	Marvell Falcon 98CX8522
Management ports	1x RJ45 100/1000Base-T out-of-band 1x RJ-45 Console 1x USB Type A
100 GbE QSFP28 ports	32
Other Ports	2x10G
CPU	Intel Broadwell-DE D1508
Memory	8GB DDR4
Storage	64GB eMMC NAND FLASH SSD module optional
FANs	5 (4+1 redundant) Hot swappable
PSU	2 x 100–240 VAC 550 W Redundant, hot swappable
Power consumption	450W max
Case	(W)445*(D)540*(H)44 mm
Weight, kg	11kg
Operating temperature	0° C – 40°C
Storage temperature	-40° C – 70°C
Operating humidity	10% – 95% (non-condensing)
Storage humidity	10% – 95% (non-condensing)
Operating altitude	3000m max

Function/parameter	S6750-2X32CQM-AC
Switching Capacity	6.4Tbps
Forwarding Rate	2800Mpps
Jumbo frames	Yes
Packet Buffer Size	24MB
Transmit Descriptors	192K
Bridge FDB Entries	Up to 256K
Router IPv4 Host Entries	Up to 256K
Router IPv6 Host Entries	Up to 128K
Router LPM	IPv4 - up to 512K unicast prefixes IPv6 - up to 256K unicast 64-bit prefixes
TCAM Resources (Shared between TTI, IPCL and EPCL Classification Engines)	36K x 10B rules
Virtual Ports (ePorts)	8K
Bridge Domains (eVLANs)	Up to 8K
Multicast Physical Port Groups (VIDX)	Up to 4K
Multicast Linked List (MLL) Entries	16K
Tunnel-Start/ARP Table	Up to 192K ARP entries Up to 48K Non-IPv6 Tunnel-Start entries Up to 24K IPv6 Tunnel-Start entries
Router Next Hop Entries	24K
Router ECMP Groups	12K
ePort ECMP Groups	16K
Trunk ECMP Group	Up to 4K
L2 ECMP Table (Shared by ePort ECMP group and Trunk ECMP groups)	16K ECMP members Each ECMP group may contain up to 4K EMCP members
Hardware OAM Flows	Ingress Hardware OAM Flows 4K(Ingress Hardware OAM Flows per Control Pipe 1K) Egress Hardware OAM Flows 4K (Egress Hardware OAM Flows per Control Pipe 1K)
Spanning Tree Groups	Up to 4K