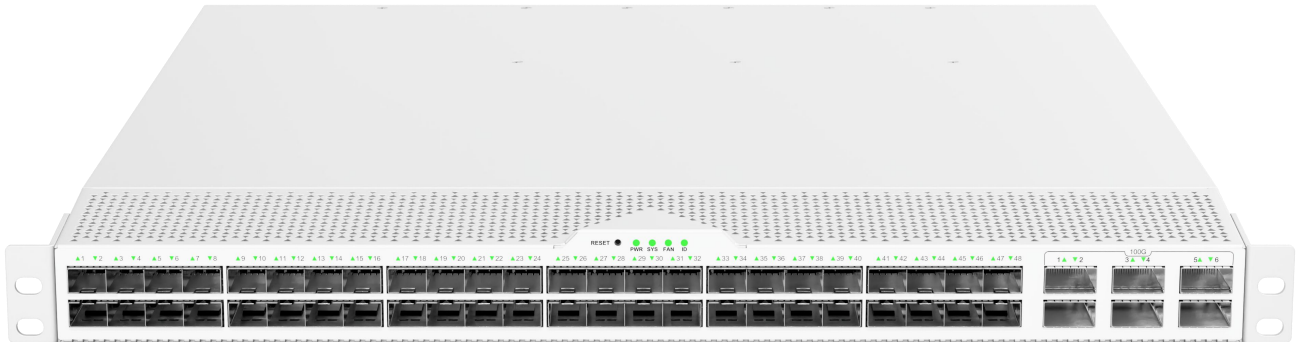


## Data Center Switch S6750-48X6CQM-AC



S6750-48X6CQM-AC is high performance, multi service aggregation or ToR (Top of Rack) switch for telco access, security and cloud, with 48 x 10G (SFP+) + 6 x 100G/40G (QSFP28) interfaces.

S6750-48X6CQM-AC switch is an advanced best-in-class, open-source network platform that line-rate L2/ L3 up to 4 Tbps switching performance of Marvell Prestera is paired with multi service feature. It is well suited for enterprise access/aggregation, high bandwidth interconnection for video distribution and security. It can also be used as the cost effective ToR switch for private cloud. S6750-48X6CQM-AC is Compact 1RU standard based open architecture, both its power supply and fan modules are hot-swappable, supporting 1+1 and 4+1 redundancy respectively.

The S6750-48X6CQM-AC switch can be deployed as a top- of- rack (ToR) or leaf switch supporting 10GbE to servers with 100GbE uplinks, each 100G QSFP28 port can be configured 40G as well as 4 x 25GbE or 4 x 10GbE via breakout cables.

### Hardware Specification

Model	S6750-48X6CQM-AC
Management ports	1x RJ45 100/1000Base-T out-of-band 1x RJ-45 Console 1x USB Type A
Switch ASIC	Marvell Aldrin 98DX8548
CPU	Maverll Octeon TX2 CN9130
Memory	8GB DDR4
Storage	SSD :64GB eMMC , optional M.2 STAT slot
Power supply units	PSU Input: 110V–240 VAC,

	PSU Output: 350W 1+1 hot pluggable
Power consumption	250W max
Fan unit	5 (4+1 redundant) Hot swappable
Form factor and dimension	1 RU (W) 445 mm x (D) 468mm x (H) 44 mm
Weight, kg	9.7 kg
Operating temperature	0° C – 45°C
Storage temperature	-40° C – 70°C
Operating humidity	5% – 95% (non-condensing)
Storage humidity	5% – 95% (non-condensing)
Operating altitude	3000m max
MTBF	40 years
MTTR	1 hour

### Performance and Scalability

Model	S6750-48X6CQM-AC
Switching Capacity	2.18 Tbps
Forwarding Rate	600Mpps
Jumbo frames	Yes
Packet Buffer Size	6 MB
Bridge FDB Entries	32K
Router IPv4 Host Entries	Up to 16K Unicast prefixes (LPM) 1 or Up to 3K (*,G) addresses
Router IPv6 Host Entries	Up to 8K Unicast prefixes (LPM) 3 or Up to 0.5K (*,G) addresses
Router LPM	IPv4 - up to 16K unicast prefixes IPv6 - up to 8K unicast 64-bit prefixes
TCAM Resources (Shared between TTI, IPCL and EPCL Classification Engines)	9K x 10B rules

Virtual Ports (ePorts)	8K
Bridge Domains (eVLANs)	8K
Multicast Physical Port Groups (VIDX)	4K
Multicast Virtual Port Groups (eVIDX)	16K
Multicast Linked List (MLL) Entries	
Tunnel-Start/ARP Table	Up to one of the following: <ul style="list-style-type: none"><li>• 32K ARP entries</li><li>• 8K non-IPv6 Tunnel Start table entries</li><li>• 4K IPv6 Tunnel Start table entries.</li></ul>
Router Next Hop Entries	8K
Router ECMP Groups	8K
ePort ECMP Groups	8K
Trunk ECMP Group	4K
Hardware OAM Flows	2K
Spanning Tree Groups	1K
QoS Profiles	1K