# Product specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>S6720-30C-EI-24S-AC(DC)</th>
<th>S6720-54C-EI-48S-AC(DC)</th>
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<td>48 x 10 Gig SFP+, 2 x 40 Gig QSFP+ ports</td>
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<tr>
<td>Extended Slot</td>
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<td>288k MAC address entries</td>
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<td>Static routing, RIPv1, RIPv2, ECMP, and URPF</td>
<td>OSPF, IS-IS, and BGP</td>
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<td>6to4 tunnel, ISATAP tunnel, and manually configured tunnel</td>
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<td>ACLs based on the source IPv6 address, destination IPv6 address, Layer 4 ports, or protocol type</td>
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<td>MLD v1/v2 snooping</td>
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Multicast

- Static Layer 2 multicast MAC address
- MAC-based multicast forwarding
- IGMP snooping and IGMP fast leave
- Multicast VLAN
- MLD snooping
- IGMP proxy
- Controllable multicast
- Port-based multicast traffic statistics
- IGMP v1/v2/v3
- PIM-SM, PIM-DM, and PIM-SSM
- MSDP

QoS/ACL

- Rate limiting on packets sent and received by an interface
- Packet redirection
- Port-based traffic policing and two-rate three-color CAR
- Eight queues on each port
- WRR, DRR, SP, WRR + SP, and DRR + SP queue scheduling algorithms
- Re-marking of the 802.1p priority and DSCP priority
- Packet filtering at Layer 2 to Layer 4, filtering out invalid frames based on the source MAC address, destination MAC address, source IP address, destination IP address, port number, protocol type, and VLAN ID
- Rate limiting in each queue and traffic shaping on ports

MPLS

- MPLS, MPLS VLL, L3VPN

VPLS

- Martini VPLS
- STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s)
- BPDU protection, root protection, and loop protection
- RRPP ring topology and RRPP multi-instance
- Smart Link tree topology and Smart Link multi-instance, providing the millisecond-level protection switchover

Reliability

- SEP
- ERPS(G.8032 v2)
- BFD for OSPF, BFD for IS-IS, BFD for VRRP, and BFD for PIM
- E-Trunk

Security

- User privilege management and password protection
- DoS attack defense, ARP attack defense, and ICMP attack defense
- Binding of the IP address, MAC address, interface, and VLAN
Port isolation, port security, and sticky MAC
Blackhole MAC address entries
Limit on the number of learned MAC addresses
802.1x authentication and limit on the number of users on an interface
AAA authentication, RADIUS authentication and TACACS authentication
SSH v2.0
Hypertext Transfer Protocol Secure (HTTPS)
CPU defense
Blacklist and whitelist

Management and Maintenance
iStack (using service ports as stack ports)
MAC Forced Forwarding (MFF)
Virtual cable test
Ethernet OAM (IEEE 802.3ah and 802.1ag)
Local port mirroring and Remote Switched Port Analyzer (RSPAN), allowing an observing port to forward packets
Remote configuration and maintenance using Telnet
SNMP v1/v2c/v3
RMON
Web NMS
System logs and alarms of different levels
GVRP
MUX VLAN

Operating Environment
Operating temperature: 0°C to 45°C (long-term); -5°C to 50°C (short-term)
Relative humidity: 10% to 90% (non-condensing)

Input Voltage
AC:
Rated voltage range: 100V to 240V AC, 50/60 Hz
Maximum voltage range: 90V to 264V AC, 50/60 Hz

DC:
Rated voltage range: –48V to –60V, DC
Maximum voltage range: –36V to –72V, DC

Dimensions (W x D x H, mm)
442 x 420 x 43.6

Typical Power Consumption
Without subcard: 147W; Without subcard: 190W;
With subcard: 166W
With subcard: 209W