Layer 3 Backbone Switch SFC6510

SFC6510

- High performance Layer 3 Backbone switch (10
- Tera) High scalability (1G/10G/40G/100G)
- Highly available, distributed processing structure (modular fabric)

- Redundancy – Control, Fabric, Power Supplies
- High-performance network configuration with
- virtualization RIP/OSPF/BGP & Multicast Routing

Specifications

Hardware	- Total slot	14
	- Main Control Unit (MCU)	Max. 2 (Redundancy) (Dual Core 600MHz/1GHz, RAM 1GB, Flash 64MB)
	- Switching Fabric (SFU)	Max. 4 (Redundancy)
	- Business card (Interface)	Max. 8 (1G/10G/40G/100G)
	- Power Supply	Max. 7 (Redundancy)
Interface	- 10/100/1000Base-T or 1000Base-X	Max. 384ports
	- 10Gbase-X	Max. 384ports
	- 40Gbase-X	Max. 64ports
	- 100Gbase-X	Max. 32ports
Specification	- Switching Capacity	10.24Tbps Max
	- Throughput	5,714.2Mpps Max
Operation Environment	- Temperature	Operation: 0°C ~ 40°C
	- Humidity	10 ~ 90% (Non condensing)
Input Power		100 ~240V AC, 50/60Hz ±10%
Dimension	(W) X (D) X (H) mm	482 x 564 x 620mm, 14U, Chassis 50kg/Max 102kg

Ordering Information

Part Number	Description	Part Number	Description
SFC6510-CH	Layer 3 Backbone Chassis, 14 Slots	8QS	8 QSFP Slot 40Gigabit Ethernet Line Card
PWR-1200-AC	Power Supply, AC 1200Watts	4CF	4 QSFP28 Slot 100Gigabit Ethernet Line Card
MCU	Main Control Unit		
SFU-II	Switching Fabric Unit, 2.56Tbps		
48GT	48 Port Gigabit Ethernet TP Line Card		
48GS	48 SFP Slot Gigabit Ethernet Line Card		
48TS	48 SFP+ Slot 10Giga Ethernet Line Card		

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Software feature

Item	Description
MAC Switching Capacity	Static configuration and dynamically learning of MAC address Check and delete MAC address Configuring of MAC address aging time Limit on MAC address learning number MAC address filtering function Black-hole MAC items
VLAN	4K VLAN entries Basic QinQ and selective QinQ GVRP Private VLAN 1:1 and N:1 VLAN Mapping
STP	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP) BPDU protection, root protection and ring protection
Multicast	IGMP v1/v2/v3 Multicast group policy and multicast number limit IGMP Snooping Multicast traffic cross VLAN duplication IGMP Fast Leave PIM-SM and PIM-DM
IPv4	Static routing, RIP v1/v2, OSPF and BGP Graceful Restart of OSPF and BGP BFD for Policy routing OSPF and BGP Load balance through equal-cost routing
IPv6	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet MLD and MLD Snooping IPv6 Neighbor Discovery IPv6 static routing, RIPng, OSPFv3 and BGP4+ Path MTU Discovery Manual tunnel, ISATAP tunnel and 6-to-4 tunnel
MPLS VPN	P/PE of MPLS L2 VPN LDP protocol MCE
QoS	Traffic classification of each field of L2/L3/L4 protocol headers CAR traffic control 802.1P/DSCP priority remark Multiple queuing algorithms such as SP, WRR or SP+WRR Tail-Drop, WRED Traffic supervision and traffic shaping
Security features	Identification and filtering of L2/L3/L4 based ACL Defend against DOS or TCP attacks Suppression of broadcast, multicast and unknown unicast packet Port isolation Port security, IP+MAC+port binding DHCP Snooping, DHCP Option 82 IEEE 802.1x access control, Radius and Tacacs+ authentication uRPF Command line authority control based on user levels
Reliability	Dual Master Control Redundancy Power 1+1 redundancy Master control, service card hot swap and service automatic recovery Static LACP link aggregation and cross service card link aggregation Ring network protection including EAPS VRRP and HSRP Ethernet OAM 802.3ah/802.1ag/ITU-Y.1731 GR for OSPF and BGP BFD for OSPF and BGP ISSU (In-Service Software Upgrade)
Management and Maintenance	Console, Telnet and SSH Remote Network Monitoring (RMON) SNMP v1/v2/v3 Statistics analysis of sFLOW, Netflow Upload and download of TFTP files
Value-added services	VSS (Virtual Switching System)
Energy saving	IEEE 802.3az green Efficient Ethernet