

Layer 3 Backbone Switch SFC6510



SFC6510

- 고성능 Layer 3 백본 스위치(10 테라급)
- 높은 확장성 (1G/10G/40G/100G)
- 높은 가용성의 분산형 처리구조(모듈형 패브릭)
- 이중화 구조 – 제어부, 패브릭, 전원부
- 가상화를 통한 고성능 네트워크 구성
- RIP/OSPF/BGP & Multicast Routing

Specifications

하드웨어	- Total slot	14
	- Main Control Unit (MCU)	Max. 2 (이중화) (Dual Core 600MHz/1GHz, RAM 1GB, Flash 64MB)
	- Switching Fabric (SFU)	Max. 4 (이중화)
	- Business card (Interface)	Max. 8 (1G/10G/40G/100G)
	- Power Supply	Max. 7 (이중화)
인터페이스	- 10/100/1000Base-T or 1000Base-X	Max. 384ports
	- 10Gbase-X	Max. 384ports
	- 40Gbase-X	Max. 64ports
	- 100Gbase-X	Max. 32ports
성능	- Switching Capacity	10.24Tbps Max
	- Throughput	5,714.2Mpps Max
동작환경	- Temperature	Operation: 0°C ~ 40°C
	- Humidity	10 ~ 90% (Non condensing)
전원		100 ~240V AC, 50/60Hz ±10%
크기	가로(W) x 세로(D) x 높이(H) mm	482 x 564 x 620mm, 14U, 샤시 50kg/최대 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 GVRP 1:1 and N:1 VLAN Mapping	Basic QinQ and selective QinQ Private VLAN
STP	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP) BPDU protection, root protection and ring protection	
Multicast	IGMP v1/v2/v3 IGMP Snooping IGMP Fast Leave	Multicast group policy and multicast number limit Multicast traffic cross VLAN duplication PIM-SM and PIM-DM
IPv4	Static routing, RIP v1/v2, OSPF and BGP Policy routing Load balance through equal-cost routing	Graceful Restart of OSPF and BGP BFD for OSPF and BGP
IPv6	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet IPv6 Neighbor Discovery Path MTU Discovery	MLD and MLD Snooping IPv6 static routing, RIPng, OSPFv3 and BGP4+ 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 SNMP v1/v2/v3 Upload and download of TFTP files	Remote Network Monitoring (RMON) Statistics analysis of sFLOW, Netflow
Value-added services	VSS (Virtual Switching System)	
Energy saving	IEEE 802.3az green Efficient Ethernet	