Layer 3 Backbone Chassis Switch

SFC6506

- Layer 3 Backbone Switch
- Redundancy of the control unit
- Redundancy of switching Fabric
- Redundancy Power supply
- 512 K MAC address
- 512 K Layer3 Routing table

Specifications

Hardware	- Total slot	10
	- Main Control Unit	Max. 2 (Redundancy) (Dual Core 600MHz/1GHz, RAM 1GB, Flash 64MB)
	- Switching Fabric slot	4 (Redundancy)
	- Business slot	4
	- Power Supply slot	Max. 7 (Redundancy)
Interface	- 10/100/1000Base-T or 1000Base-X	Max. 192ports
	- 10Gbase-X	Max. 192ports
	- 40Gbase-X	Max. 32ports
	- 100Gbase-X	Max. 16ports
Specification	- Switching Capacity	5.12Tbps Max
	- Throughput	2,857.1Mpps Max
Operating Environment	- Temperature	Operation: 0°C ~ 40°C
	- Humidity	10 ~ 90% (Non condensing)
Input Power		100 ~240V AC, 50/60Hz ±10%
Dimension		482mm(W) x 564mm(D) x 486mm(H), 12U, 40kg ~ 81kg

Ordering Information

Part Number	Description
SFC6506	Layer 3 Backbone Chassis, 10 Slots
PWR-AC-1200	Power Supply, AC 1200Watts
MCU	Main Control Unit
SFU	Switching Fabric Unit, 1.28Tbps
48GT	48 Port Gigabit Ethernet TP Line Card
48GS	48 Slot SFP Gigabit Ethernet Line Card
48TS	48 Slot SFP+ Slot 10Giga Ethernet Line Card

Layer 3 Backbone Chassis Switch

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