



Data Communication



Optical Fiber



Tele Communication



IT Product & Services





FES-S6600-X-SI

L2+ 10G Access Switch

Product Overview

FES-S6600-X-SI is L2 10G uplink intelligent switches designed for carrier and MAN networks. It supports comprehensive QoS, enhanced VLAN functions (Dynamic VLAN, Voice VLAN, Q-in-Q, N:1 VLAN Translation etc), Ethernet Ring Protection Protocol (G.8032), classified bandwidth control, intelligent security control, OAM (Operations, Administration and Maintenance), manageability functions and Triple-Play services which fulfil the network requirements demanded by carrier network, MAN access. FES-S6600-X-SI Series switch offers green features like Fan-less design feature, which can dramatically lower power consumption, achieve green energy and save the cost for the carrier and MAN users.

FES-S6600-X-SI is equipped with the full GE ports and 4*10G SFP+ uplink ports, it integrates advanced management and security functions to provide performance and scalability.

Appearance	Description
 FES-S6600-28X-SI	24 x 10/100/1000Base-T + 4 x 10GE(SFP+) 1 Console, 1 USB, 1Reset AC Power Supply Forward performance: 96Mpps Switching Capacity: 128Gbps
 FES-S6600-28XP-SI	24 x 10/100/1000Base-T + 4 x 10GE(SFP+) 1 Console, 1 USB, 1 Reset, PoE up to 370W AC Power Supply Forward performance: 96Mpps Switching Capacity: 128Gbps
 FES-S6600-52X-SI	48 x 10/100/1000Base-T + 4 x 10GE(SFP+) 1 Console, 1 USB, 10/100MBase-Tmanagement Port, 1 AC Power Supply 1 Reset Forward performance: 131Mpps Switching Capacity: 176Gbps



Key Features and Highlights

10G Uplink Access Switch

Equipped with the full GE ports and 4*10G SFP+ uplink ports, FES-S6600-X-SI provides a solid foundation and more than enough bandwidth for your business applications today and in the future.

L3 Forwarding

FES-S6600-X-SI supports L3 forwarding allowing you to segment your network into workgroups and communicate across VLANs without degrading application performance.

VSF (Virtual Switch Framework)

Virtual Switch Framework can virtualize multiple FES switches into one logical device, achieving the sharing of information and data tables between different switches. The performance and ports density of the virtualized device is greatly enlarged by times under VSF. VSF also simplifies management work for the network administrator and provides more reliability.

Enhanced Security

IEEE **802.1X** port-based access control ensures all users are authorized before being granted access to the network. User authentication is carried out using any standard-based RADIUS server.

Access Control Lists (**ACLs**) can be used to restrict access to sensitive network resources by denying packets and forward by different policies. User-defined ACL provides more flexible access control for users.

FES-S6600-X-SI supports **DHCP snooping**, which prevents DHCP attacks and illegal DHCP SERVER by setting trust ports and untrust ports. With DHCP Snooping binding and option82 enabled, it can combine modules like dot1x and ARP, or implement user-access control independently.

FES-S6600-X-SI supports abundant L2 security features such as **ARP guard**, **Anti-ARP scanning**, and other ARP and **MAC Security** technology to protect network security and reliability

High Reliability

FES-S6600-X-SI supports 4 10G uplink ports, which could be designed to offer redundant uplinks with various ring protection applications, effectively raised the expansibility and performance of the network.

G.8032 provides sub-50ms protection and recovery switching for Ethernet traffic in a carrier ring topology.

FES-S6600-X-SI supports G.8032 v2 and can be deployed in a variety of complex network topologies including single ring, tangent ring, intersecting rings, double rings, and other home networking.

Abundant Multicast Features

FES-S6600-X-SI also supports **MVR** (Multicast VLAN Register), selectively allows traffic to cross between different VLANs for bandwidth and security reasons. With the MVR Trunk function, which could associate multicast VLAN to trunk port, FES-S6600-XSI combines the VLAN data into the same link, saving lots of resources for users. FES-S6600-X-SI could prevent multicast traffic from flooding via IGMP Snooping, while multicast traffic is only forwarded to ports associated with multicast devices.



Specifications:

Item	FES-S6600-28X-SI	FES-S6600-28XP-SI	FES-S6600-52X-SI
	24 x 10/100/1000 Base-T +	24 x 10/100/1000 Base-T +	48 x 10/100/1000Base-T +
Ports	4 x 1/10GE(SFP+)	4 x 1/10GE(SFP+)	4 x 1/10GE(SFP+)
	Auto-MIDX	Auto-MIDX	Auto-MIDX
Management port	1x Console port	1x Console port	1x Console port
	1x USB2.0 interface	1x USB2.0 interface	1x USB2.0 interface
	1x Reset key	1x Reset key	1x Reset key
Performance			
Switching Capacity	128Gbps	128Gbps	176Gbps
Forwarding Rate	96Mpps	96Mpps	131Mbps
MAC ADDRESS	16K	16K	16K
Jumbo Frame	10K bytes	10K bytes	10K bytes
Packet Buffer	12Mbits	12Mbits	24Mbits
ACL Table	512	512	512
Queues per port	8	8	8
VLAN TABLE	4K	4K	4K
Physical			
Dimension(W×H×D)	440mm x 44mm x 170mm	440mm x 44mm x 300mm	440mm x44mm x280mm
Power Input	100~240VAC, 50~60Hz	100~240VAC, 50~60Hz	100~240VAC, 50~60Hz
Power Consumption	21W	<420W	<50W
Cooling	Passive	Active	Active
Temperature	Working 0°C~50°C, Storage -40°C~70°C	Working 0°C~50°C, Storage -40°C~70°C	Working 0°C~50°C, Storage -40°C~70°C
Relative Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
EMC Safety	CE, RoHS	CE, RoHS	CE, RoHS
PoE	NA	IEEE 802.3af POE (15.4W) IEEE 802.3at POE+ (30W)	NA
		PoE output 370w	
Main Features			
Forwarding	Storage and forwarding		
	Port-based VLAN, IEEE802.1Q, private VLAN, Protocol VLAN, Voice VLAN, MAC VLAN		
VLAN	Normal QinQ, Flexible QinQ		
	VLAN Translation, N:1 VLAN Translation		
L3 Features	Static Routing, PBR		
DHCP	IPv4/IPv6 DHCP Client, IPv4/IPv6 DHCP Relay Option 82, Option 37/38		
	IPv4/IPv6 DHCP Snooping, IPv4/IPv6 DHCP Server		
Reliability	802.1D STP, 802.1W RSTP, 802.1S MSTP		



	Spanning Tree	Root Guard, BPDU Guard, BPDU Forwarding, TCN filtering	
	LACP	64 groups / 8 ports	
		MRPP	
	L2 Ring	ERPS (G.8032)	
	Protection	Loopback Detection Fast Link	
Security		IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL	
		Time Range ACL	
		ACL rules can be configured to port, VLAN Storm Control based on packets	
		Port Security, MAC Limit based on VLAN and Port Anti-ARP-Spoofing, Anti-ARP-Scan, ARP Binding ND Snooping	
		DAI	
		IEEE 802.1x	
		Authentication, Authorization, Accounting Radius, TACACS+	
Multicast		IGMP v1/v2/v3 snooping, IGMP Proxy, IGMP v3	
		MLD v1/v2 snooping	
QoS		8 Queues Per Port	
		Bandwidth Control	
		Flow Redirect	
		Classification based on ACL, VLAN ID, COS, TOS, DSCP,	
		Policing Based on Port and VLAN	
		Single Rate single barrel double colour for Policing	
		SP DWRR SDWRR, SP+DWRR for Scheduling	
		Match the IP fragmentation of a message	
Maintenance and Operation Management		TFTP/FTP	
		CLI, Telnet, Console	
		Web/SSL (IPv4/IPv6)	
		SSH (IPv4/IPv6)	
		SNMPv1/v2c/v3	
		SNMP Trap	
		Public & Private MIB interface	
		RMON 1,2,3,9	
		Ping, Trace Route SNTP/NTP (IPv4/IPv6)	
		Radius Authentication	
		Syslog (IPv4/IPv6)	
		Dual IMG, Multiple Configuration File	
		Port Mirror, RSPAN	
		sFlow OAM EFM	
		VCT, DDM	
		ULDP (like Cisco UDLD)	
	LLDP/LLDP MED		
Green Energy		Fanless	Auto-speed fan



Order Information:

Product	Description
FES-S6600-28X-SI	L2+ Full Gigabit Access Switch with 24 10/100/1000Base-T and 4 10GE(SFP+) ports, static routing, 1 fixed AC power
FES-S6600-28XP-SI	L2+ Full Gigabit Access Switch with 24 10/100/1000Base-T PoE and 4 10GE(SFP+) ports, static routing, 1 fixed AC power, PoE output up to 370w
FES-S6600-52X-SI	L2+ Full Gigabit Access Switch with 48 10/100/1000Base-T and 4 10GE (SFP+) ports, static routing, 1 fixed AC power

