





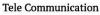


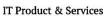
FOREVER ENGINEERING SYSTEMS PVT. LTD.

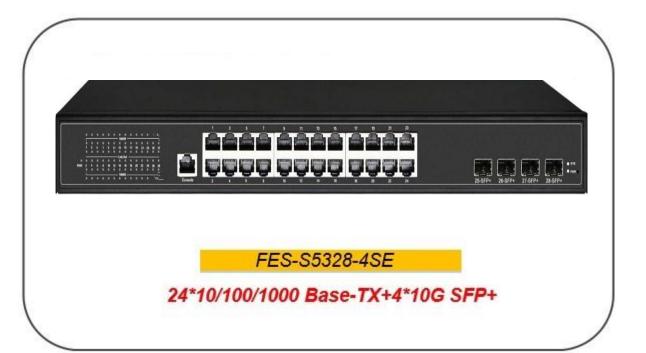


Data Communication

Optical Fiber







Model	FES-S5328-4SE
Hardware	
Fixed Port	24*10/100/1000Base-TX 4*10G SFP+
Console Port	1*console port
Reset Key	1
CPU	400MHz ARM® Cortex ™-A9
DDR	2G DDR3 1333MHz
Buffer	Fully integrated 1.5 MB packet buffer
FLASH	64M
RAM	256M
Bandwidth	256Gbps
Packet Forwarding	92.32Mpps
MAC Address	16K











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	IEEE 802.3 IEEE 802.3u 100BASE-TX IEEE 802.3ab1000BASE-T IEEE 802.3xIEEE 802.3z 1000BASE-X IEEE 802.3af/at IEEE 802.3ad	
	IEEE 802.3q 、IEEE 802.3q/p	
	IEEE 802.1w, IEEE 802.1d , IEEE 802.1S	
Network Protocol	STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol)EPPS ring network protocol EAPS ring network protocol	
Port Specification	10/100/1000BaseT (X) Auto	
Transmission Mode	Store and Forward(full wire speed)	
Transmission Distance	10BASE-T : Cat3,4,5 UTP(≤250 meter) 100BASE-TX : Cat5 or later UTP(≤100 meter) 1000BASE-TX : Cat6 or later UTP(≤1000 meter) DWD: Dewert ED SYSt(Curtere LED)	
	PWR: Power LED SYS:(System LED) 1~24:(Link LED=10/100M Link、1000M=Gigabit Link)	
	25- 28: (SFP LED)	
LED Indicator		
Power	Built-in power AC 100~240V 50/60HZ MAX Max Current 4.8A Max Power 400W	
Operating		
Temperature/Humidity	-20~+55°C ; 5%~90% RH Non coagulation	
Storage Temperature/Humidity	-40~+75°C;5%~95% RH Non coagulation	
Physical size	Product size: 440mm*290mm*45mm Packing size: 515mm*375mm*95mm	
N.W/G.W(kg)	3.5kg/4.3kg	
Installation type	1U Rack type, 19 "	
Lightning protection level	3KV 8/20us ; IP30	
Certificate	CE mark, commercial ; CE/LVD EN60950 ; FCC Part 15 Class B ; RoHS ;	
Warranty	Whole device for 1 year(Accessories not included)	
SSoftware Feature		
Port		
Port Shutdown	Support	
Port Speed	Support auto negotiate, full-1000, full-100, half-100, full-10, half-10	
Flow Control	support full-duplex IEEE 802.3x, half-duplex back pressure	
Storm Control	Supports rate limit for broadcast, multicast, and DLF packets	
Storm Constrain	Support the detection of broadcast packets, multicast packets,	
	or unicast packets on the port, shutdown the port if the rate is over	
	the threshold.	
Port Mirror	Support	
Port Rate Limit	Support port ingress and egress rate limit	

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Link Aggregation





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Support manual link aggregation Support

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	LACP dynamic link aggregation
	Supports up to 32 aggregation groups, each group up
	to 8 ports
	Support source MAC, destination
	MAC, source destination MAC,
	source IP, destination IP, source
	destination IP routing strategy
Port Isolate	Support
Jumbo Frame	Support up to 16KB packet
Redundant Port	Support
MAC	
MAC Table Capacity	16K
MAC Table Management	Support
Forwarding mode	Support IVL forwarding mode
Static MAC Address	Support
MAC Address Binding	Support
MAC Address Filtering	Support
MAC Learning Control	Control the MAC learning based on port
VLAN	
Number of VLANs	4K
802.1q-based VLAN	Support
MAC-based VLAN	Support
IP-based VLAN	Support
Protocol-based VLAN	Support
Voice VLAN	Support

Support 1:1 mapping **VLAN Mapping** Support basic QinQ QinQ Support flexible QinQ Reliability Spanning Tree Protocol Support STP/RSTP/MSTP Port Loop Detection Support EAPS Support ERPS Support G.8032/Y.1344 LLDP Support LLDP & LLDP-MED

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UDLD	Fully compatible with CISCO's UDLD protocol
VLLP (VRRP Layer-2 Loop	Support, Only used with VRRP
Protection)	
L3	
ARP	Support static and dynamic ARP
Static Route	Support
VLAN Interface	Support 32 VLAN interfaces
RIP	Support RIP v1/v2
OSPF	Support OSPFv2
Policy Route	Support
VRRP	Support
Multicast	
Static Multicast MAC Address	Support
IGMP SNOOPING	Support IGMP SNOOPING v1/v2/v3
	Support IGMP Querier
	Support IGMP SNOOPING Filter
MVR	Support
GMRP	Support
ACL	
Standard IP-based ACL	Support
Extended IP based ACL	Support
MAC IP-based ACL	Support
MAC ARP-based ACL	Support
ACL Port Filtering	Support
Time-based ACL	Support
QoS	
Port Queue Number	8
Port Queue Scheduling Mode	Support WRR,RR,WDRR,SP
Port-based Classification	Support
802.1p-based Classification	Support
DSCP-based Classification	Support
ACL-based Classification	Support
QoS Policy	Support packets mapping to queue
	Support COS or DSCP Remarking
	Support rate limits of data flow
	Support data flow statistics
	Support mirroring of data flow

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Communication

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DHCP	
DHCP Client	Support
DHCP Snooping	Support
DHCP Relay	Support
DHCP Server	Support
DHCP option 82	Support
Management	
CLI Management	Support Console, Telnet and SSH
WEB Management	Support HTTP and HTTPS
SNMP Management	Support SNMP v1, v2c
	Support SNMP TRAP
	Support lots of standard and private MIBs
User Management	Support multiple user management
Log Management	Support local log management
	Support SYSLOG
RMON	Support RMON 1, 2, 3 and 9 groups
Cluster Management	Support NDP Support NTDP
	Support manual and automatic joining of cluster groups
	Support cluster unified management
Configuration File	Support uploading and downloading configuration file
Upgrade software	Support
Clock Management	Support local clock management
	Support SNTP
Security	· · · ·
Switch Management Security	Support enabling and disabling TELNET, WEB and SNMP
	services
	Support TELNET, WEB and SNMP services to bindto
	standard IP ACLs
	Support for limiting the number of TELNET
	connections
CPU Protection	The switch's own security protection prevents large data
	Streams from attacking the switch itself.
AAA	Support 802.1x
	Support RADIUS
	Supports authentication, authorization, and
	accounting through RADIUS server Support
	port-based and MAC-based 802.1xSupport

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	802.1x guest VLAN
IP MAC Binding	Support static configuration of IP, MAC and port binding
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP
	spoofing
	Support dynamic IP, MAC and port binding Support
	fixed port to connect to DHCP server to
	prevent private connection to DHCP server
Prevent ARP Spoofing	Support manually configuring MAC ARP-based ACL rules toprevent ARP
	spoofing.
	Support the DHCP SNOOPING function. During the process of
	obtaining an IP address by DHCP, the switch dynamically binds
	ARP to the port to prevent ARP spoofing.
Debugging	
PING	Support
TRACEROUTE	Support
TELNET Client	Support

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