BCZW

32-Port 10G Layer 3 Managed Ethernet Switch

EXCLUSIVE 2 YEAR WARRANTY

S7500-32TE-EI

IPv6/IPv4 ACL/QoS

Redundant Power

Cyber Security

The S7500-32TE-EI is a high-density, enterprise-grade Layer 3 switch engineered for data center aggregation, campus core, and high-performance computing environments. Delivering 32 ports of full 10GbE connectivity, this switch eliminates bandwidth bottlenecks and ensures seamless data flow for mission-critical applications. Built on a robust hardware architecture with advanced L3 routing capabilities, the S7500-32TE-EI offers the performance, security, and reliability required by ISPs, large enterprises, and cloud service providers. Partner with BENCHU GROUP to deploy a network infrastructure that scales with your ambition.

High-Density 10G Performance

Equipped with 32× 10G SFP+ ports, this switch delivers 640 Gbps switching capacity and 470 Mpps forwarding rate for non-blocking wire-speed performance. Its optimized low-latency data path supports real-time applications like financial trading, virtualization, and HD video conferencing.

Advanced Layer 3 Routing

Supports dynamic routing protocols including OSPFv2/v3, RIPv1/v2, and BGP for complex topologies. Static routing and VRRP enable flexible inter-VLAN routing and gateway redundancy, while full IPv4/IPv6 dual stack support future-proofs your infrastructure.

Carrier-Class Reliability

ERPS (G.8032) provides sub-50ms ring protection switching to ensure continuity during link failures. Additional redundancy features include LACP, optional dual power inputs, hot-swappable fans, and Graceful Restart to prevent network flapping.

Comprehensive Security & Control

Layer 2/3/4 ACLs allow granular traffic filtering and policy enforcement. Network access is secured via 802.1X, MAC, and Portal Authentication, with built-in defense against DoS, ARP spoofing, and DHCP snooping attacks.

Flexible Management & Automation

Manage via CLI, Web GUI, or SNMP v1/v2c/v3 for seamless NMS integration. Automation-ready with NETCONF/YANG models and scriptable CLI to reduce OPEX. Includes diagnostic tools like cable testing and sFlow/NetFlow for real-time troubleshooting.

S7500-32GE-EI

32 ports 1G/2.5G/10G Enterprise-grade Ethernet switch

Technical Datasheet

Model	S7500-32TE-HI	
Hardware Specifications		
Connector	32* 1G/2.5G/10G Base-T RJ45 Ports	
Managed	1x Ethernet	
Console	1 x RS232-to-RJ45 serial port (115200, 8, N, 1)	
Switch Architecture	Store and Forward	
Switch Performance	Backplane bandwidth	760Gbps
	Packet forwarding rate	565.44Mpps
	MAC address	32k
Power requirement	AC100-240V 50/60Hz * 2 Dual redundant power slots, Hot swappable	
Fans	4 Fans, Hot swappable	
Dimension(W x D x H)	440 x 290 x 44.5mm(17.32in x 11.42in x 1.75in)	
Weight	<6kg	
Environment	Operating temperature: -0℃~50℃，operating humidity: 10%~90% Storage temperature: -20℃~75℃，storage humidity: 5%~95%	
Safety	FCC Part15 Class A,CE.RoHs	

Software specifications	
Data Center Characteristics	VSS TRILL/SPB large layer-2 technique FCoE technique SDN
MAC Switching Capacity	Static Configuration and Dynamically Learning of MAC Address Check and Delete MAC Address 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
Spanning Tree Protocol	STP, IEEE 802.1D Spanning Tree Protocol RSTP, IEEE 802.1w Rapid Spanning Tree Protocol MSTP, IEEE 802.1s Multiple Spanning Tree Protocol
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
	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	LDP protocol
	MCE
	P/PE of MPLS VPN
	MPLS Traffic Engineering (TE)
	MPLS Operations, Administration, and Maintenance (OAM)
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 Filtration of L2/L3/L4 Based ACL
	Defend Against DDoS attack, SYN Flood of TCP, UDP Flood Attack, etc.
	Suppression of Broadcast, Multicast and Unknown Unicast Packet.
	Port Isolation
	Port Security, IP+MAC+Port Binding
	DHCP Snooping and DHCP Option 82
	IEEE 802.1x authentication
	Radius and Tacacs+ authentication
	uRPF
	Command Line Authority Control Based on User Levels
Reliability	Power 1+1 Backup
	Power and Fan Hot-swap
	Static/LACP Link Aggregation and Cross Service Card Link Aggregation
	Ring Network Protection Including EAPS
	VRRP
	Ethernet OAM 802.3ah/802.1ag/Itu-Y.1731
	GR for OSPF and BGP
	BFD for OSPF and BGP
	ISSU

Management Function	
Basic Management Interfaces	Console / Telnet / SNMP v1, v2c, V3 Firmware upgrade by HTTP / TFTP protocol through Ethernet network Remote Network Monitoring (RMON) Statistics Analysis Of sFLOW, Netflow Clock Management(System Time , NTP Server) Log Management
Secure Management Interfaces	SSH, SSL, SNMP
SNMP MIBs	RFC 1213 MIB-II RFC 1215 Generic Traps RFC 1493 Bridge MIB RFC 2674 Bridge MIB Extensions RFC 2737 Entity MIB (Version 2) RFC 2819 RMON (1, 2, 3, 9) RFC 2863 Interface Group MIB RFC 3635 Ethernet-like MIB

Ordering Information	
S7500-32TE-EI	32 Ports 1G/2.5G/10Gbps Managed Switch, Power 1+1 Backup

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