



24-10Gb RJ45, 2-40Gbp QSFP+

Enterprise Core switch



S7500-24TE2QF-EI

IPv6/IPv4
ACL/QoS

Redundant
Power

Cyber
Security

The S7500-24TE2QF-EI is a high-density Enterprise Core Switch engineered for data center aggregation and high-performance campus backbones. Featuring 24x 10Gb Base-T ports and 2x 40Gb QSFP+ uplinks, it delivers exceptional flexibility for copper-based server access and high-speed fiber aggregation. Built with 1+1 Dual Power Supplies and advanced Layer 3 EI capabilities, it ensures maximum uptime and intelligent traffic management for mission-critical networks. Partner with BENCHU GROUP to deploy a robust core infrastructure that scales with your business growth.

High-Density 10G Copper & 40G Uplinks

Equipped with 24x 10G Base-T ports to eliminate transceiver costs for server access, while 2x 40G QSFP+ uplinks provide massive backbone bandwidth for congestion-free aggregation and future-proof scalability.

Carrier-Grade Power Redundancy

Features 1+1 Dual Power Supplies supporting load sharing and failover protection, ensuring continuous operation during power events and minimizing downtime risks for critical network cores.

Advanced Layer 3 Routing

Supports comprehensive dynamic routing protocols including OSPFv2/v3, BGP, and VRRP for complex topologies. Static routing and IPv4/IPv6 dual-stack capabilities enable efficient inter-VLAN routing and gateway redundancy.

Comprehensive Network Security

Provides multi-layer protection with Layer 2/3/4 ACLs, 802.1X authentication, and DHCP snooping. Built-in defense mechanisms against DoS, ARP spoofing, and broadcast storms safeguard network integrity.

Flexible Management & Visibility

Manageable via CLI, Web GUI, and SNMP v1/v2c/v3 for seamless NMS integration. Supports sFlow/NetFlow for real-time traffic monitoring, automated provisioning, and simplified troubleshooting.

S7500-24TE2QF-EI

24 x 10Gb RJ45, 2 x 40Gbps QSFP+, 1+1 Dual Power Supply, Enterprise Core switch

Technical Datasheet

Model	S7500-24TE2QF-HI	
Hardware Specifications		
Connector	24* 1G/2.5G/10G Base-T RJ45 Ports 2* 40G Base-X QSFP+ Slots	
Managed	1x Ethernet	
Console	1 x RS232-to-RJ45 serial port (115200, 8, N, 1)	
Switch Architecture	Store and Forward	
Switch Performance	Backplane bandwidth	1.38Tbps
	Packet forwarding rate	662.48Mpps
	MAC address	32k
Power requirement	AC100-240V 50/60Hz * 2 Dual redundant power slots, Hot swappable	
Fans	4 Fans	
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°C~50°C, operating humidity: 10%~90% Storage temperature: -20°C~75°C, 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	
MAC Switching Capacity	SDN	
	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	
VLAN	Black-Hole MAC Items	
	4K VLAN entries	
	GVRP	
	1:1 and N:1 VLAN Mapping	
Spanning Tree Protocol	Basic Qinq and Selective Qinq	
	Private VLAN	
	STP, IEEE 802.1D Spanning Tree Protocol	
Multicast	RSTP, IEEE 802.1w Rapid Spanning Tree Protocol	
	MSTP, IEEE 802.1s Multiple Spanning Tree Protocol	
	IGMP v1/v2/v3	

	<ul style="list-style-type: none"> IGMP Snooping IGMP Fast Leave Multicast Group Policy and Multicast Number Limit Multicast Traffic Cross Vlan Duplication PIM-SM and PIM-DM
IPv4	<ul style="list-style-type: none"> Static Routing RIP V1/V2, OSPF and BGP Policy Routing Load Balance through Equal-Cost Routing BFD for OSPF and BGP
IPv6	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> LDP protocol MCE P/PE of MPLS VPN MPLS Traffic Engineering (TE) MPLS Operations, Administration, and Maintenance (OAM)
QoS	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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

S7500-24TE2QF-EI	24 x 10Gb RJ45, 2 x 40Gbps QSFP+, 1+1 Dual Power Supply, Enterprise Core switch
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