DS-3E2500-H Series

Product overview

DS-3E2500-H series Ethernet switch is the new generation of Gigabit speed managed switch with high performance that is specially developed for SMB (Small Business) market.It supports Intelligent Resilient Framework stacking and provides abundant security access policies and enhanced network manageability and maintenance. This makes it ideal for diversified network building scenarios, including government, small and medium-sized enterprises, schools, and hotels.

Ordering Information

Product ID	Product Description
DS-3E2528-H	24×10/100/1000BASE-T ports, 4×1000Base-X SFP ports.
DS-3E2552-H	48×10/100/1000BASE-T ports, 4×1000Base-X SFP ports.
DS-3E2528P-H	24×10/100/1000BASE-T ports (POE+), 4×1000Base-X SFP ports.

Features and benefits

- DS-3E2500-H series supports the combination of "Ethernet port + optical port" to meet networking requirements of various scenarios, which is convenient for users to build a flexible network. It offers 24-port, and 48-port access and all ports support Gigabit wire speed forwarding capabilities to meet users' needs.
- The virtualization technology allows each slave device in the stack to serve as the backup of the master, creating control and data link redundancy, as well as uninterrupted layer-3 forwarding. This improves the reliability, avoids unplanned business downtime and serves to improve overall performance. When the master device fails, traffic remains uninterrupted.
- Support ARP Detection, which can prevent hackers or attackers from implementing "ARP spoofing attacks" through ARP packets. Support IP Source Guard, which can prevent illegal address spoofing including MAC spoofing, IP spoofing, MAC/IP spoofing, and DoS attacks. Support DHCP Snooping, which can prevent private DHCP servers and ensure the authenticity and consistency of the DHCP environment. Support port security features, which can prevent MAC address-based attacks and realize traffic permit/limit based on a MAC address.
- Support speed limit on port and traffic to prevent malicious invasion of network bandwidth and provide multiple granular management tools. Support SP (Strict Priority), WRR (Weighted Round Robin), and SP+WRR queue scheduling algorithms, and support multi-priority data transmission. Support rich IPv6 services and multiple IPv6 management tools.
- Support CLI command line, Web network management, and Telnet, making device management more convenient. And support SSH2.0 and other encryption methods, making management more secure. Support remote upgrade of devices through FTP and TFTP, SNMP v1/v2c/v3
- Energy-saving design greatly reduces device power consumption and trouble spots. Radiation is reduced to reach the standard for household electrical appliances and is harmless to humans.

Specifications

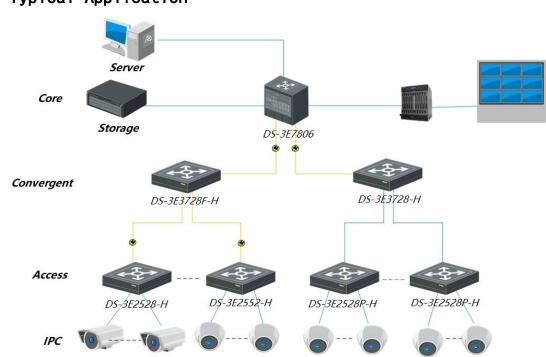| Item	DS-3E2528-H	DS-3E2552-H	DS-3E2528P-H
Service ports	24×10/100/1000BASE-T ports, 4×1000Base-X SFP ports.	48×10/100/1000BASE-T ports, 4×1000Base-X SFP ports.	24×10/100/1000BASE-T ports (POE+), 4×1000Base-X SFP ports.
Switching capacity	336Gbps	336Gbps	336Gbps
Packet forwarding rate	92 Mpps	120 Mpps	92 Mpps
Management port	1 Console port		
Electrical port attribute	Half-duplex, full-duplex, and auto-negotiation MDI/MDI-X		
Dimensions (W×D×H) (mm)	440×160×44	440×230×44	440×260×44
Input voltage	AC : 100V～240V AC , 50/60Hz; Maximum voltage range: 90V to 264V, 47Hz to 63Hz		
POE	N/A		POE+ with the maximum 30w output power per port
Power consumption	≤ 23W	≤ 41W	MAX: 448W (POE: 370W)
Weight	≤ 2.5kg	≤ 3.5kg	≤ 4.5kg
Operating temperature	-5℃ to 45℃		
Operating humidity	10% RH to 95% RH, non-condensing		
Ethernet functions	LLDP Static MAC configuration Limit of number of MAC addresses to be learned (up to 8K) Port mirroring and traffic mirroring Port aggregation (up to 24 groups and 8 ports for each group) Port isolation STP/RSTP/MSTP IEEE 802.3ad (dynamic link aggregation) and static port aggregation		
VLAN	802.1Q (up to 4K VLAN) Protocol-based VLAN MAC-based VLAN		

	GUEST VLAN VLAN mapping MVRP
IP routing	Static routing
DHCP	DHCP Relay DHCP Client DHCP Snooping
Multicast	IGMP V1/V2/V3 snooping PIM Snooping Multicast VLAN IPv6 multicast setting
QoS	SP/WRR/SP+WRR queue scheduling 802.1p and DSCP priority mapping Port speed limit
ACL	ACL on Layer 2, Layer 3 and Layer 4 IPv4 and IPv6 ACLs VLAN ACL
IPv6	IPv6 static routing and dual-stack DHCPv6 Client and DHCPv6 Snooping ND and PMTU IPv6 Ping, IPv6 Telnet, IPv6 SSHv2, and IPv6 domain name resolution
Reliability	Ethernet OAM DLDP Smart Link Monitor Link
Security	Hierarchical user management and password protection SSH for a secure encrypted channel for user login Specific IP address based FTP logging and password mechanism Prevent attacks from ARP, unknown multicast packet, broadcast packet, unknown unicast packet, TTL=1 packet, and protocol packet MAC address limit IP+MAC+PORT binding IEEE 802.1x Radius and AAA SNMPv3 Broadcast suppression
System management	Command line configuration via console/AUX Modem/Telnet/SSH Uploading and downloading of FTP, TFTP, and Xmodem, and SFTP files SNMP V1/V2c/V3 sFlow NQA NTP clock System operating logs

▪ Typical Application

Server			
Core	Storage	DS-3E7806	
Convergent	DS-3E3728F-H	DS-3E3728-H	
Access	DS-3E2528-H DS-3E2552-H	DS-3E2528P-H DS-3E2528P-H	
IPC			