

DS-3E2510P Gigabit Full Managed PoE Switch



Features and Functions

- DS-3E2510P supports the telecom-level Ethernet-ring protection protocol with a protection shift time of less than 50ms, STP/RSTP, backup of active and standby uplinks, and LACP link aggregation to cater to the requirements of high reliability of carriers;
- DS-3E2510P has powerful ACL functions to access and control L2-L7 data, providing carriers flexible and various policy control methods;
- DS-3E2510P supports In-Service Software Upgrade (ISSU) to ensure the unremitting data forwarding during system upgrade;
- DS-3E2510P supports various L2 multicast functions such as IGMP-snooping, user fast-leave mechanism and trans-vlan multicast copy;
- DS-3E2510P supports IEEE 802.3AF/AT standard, built-in large power supply, no need of external power supply, that is, 24-port AF full-load power supply.
- DS-3E2510P supports the configuration of Base-T port priority when the power is inadequate.
- DS-3E2510P supports POE port and up to 4KV power thunder-proof.
- DS-3E2510P supports priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority to better streamline carrier's services;
- DS-3E2510P provides flexible bandwidth control policies, supporting port-/flow-based flow limit, and ensuring the line speed forwarding of each port to make sure the high quality of network services;
- DS-3E2510P supports multiple queue schedule algorithms such as SP, WRR, or "SP plus WRR";
- Equipment-level security: The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection, prevents DoS-/TCP-related SYN Flood, UDP Flood, Broadcast Storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions;
- Perfect security authentication mechanisms: IEEE 802.1x, Radius and BDTacacs+;
- DS-3E2510P supports storm/multicast/unicast limit which ensures the normal running of equipment in harsh network conditions;
- DS-3E2510P supports perfect ring detection mechanism which ensures the long-term stable running of network;
- DS-3E2510P supports port isolation within the same VLAN, DHCP-Snooping, and IP plus MAC plus Port binding for ensuring user data security;
- DS-3E2510P supports many management modes such as the console port, Telnet, SSH;
- DS-3E2510P supports the WEB management mode, which is easy and efficient so that it makes installation and debugging convenient;
- DS-3E2510P supports TFTP-patterned file upload/download management;

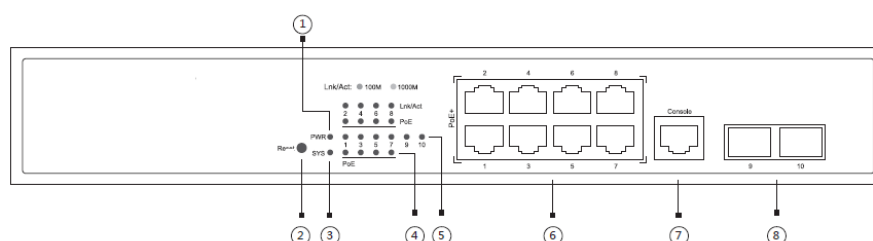


Specifications

| | |
|------------------------|---|
| Item | DS-3E2510P |
| Port number | 8 x 10/100/1000Base-T PoE ports, 2 1000Base-X SFP ports, 1 Console port |
| Switching capacity | 20Gbps |
| Packet forwarding rate | 15Mpps |
| MAC address table | 8K |
| Dimensions(L × H × D) | 280 mm × 45 mm × 179 mm |
| Consumption | <15W |
| POE standard | IEEE802.3af, IEEE802.3at |
| POE power budget | 125W |
| Power supply | AC : 100V-240V , 50Hz±10% |
| Environment | Operating temperature/humidity: 0°C-45°C , 5%-95% non-condensing Storage temperature/humidity: -20°C-70°C ; 5%-95% non-condensing |
| MAC exchange | Static configuration and dynamic MAC learning; MAC browsing and removal Configurable aging time of the MAC address; Limited number of learnable MAC addresses; MAC filtration |
| VLAN | 4K VLAN; GVRP; QinQ; Private VLAN |
| STP | 802.1D (STP), 802.1W (RSTP) and 802.1S (MSTP) BPDU protection, root protection, and loopback protection |
| Multicast | IGMP v1/v2/v3 IGMP snooping IGMP Fast Leave Multicast group strategy and quantity limitation |
| QoS | Flow classification based on L2~4 protocols CAR flow limit 802.1P/DSCP priority re-labeling SP, WRR, and “SP+WRR” Congestion avoidance mechanisms like Tail-Drop and WRED Flow monitoring and flow shaping |
| Security | L2/L3/L4 ACL flow identification and filtration DDoS attack prevention, TCP’s SYN Flood attack prevention, UDP Flood attack prevention, etc Broadcast/multicast/unknown unicast storm-control Port isolation Port security, and “IP+MAC+port” binding |
| Reliability | Static/LACP link aggregation EAPS and ERPS |
| Management | Console, Telnet, SSH2.0, Web SNMP v1/v2/v3 TFTP RMON |

Physical Interfaces

Front Panel



| No. | Abbrev. | Name | Remarks |
|-----|---------|---|---|
| 1 | PWR | power indicator | If the switch is powered on, the indicator is on. |
| 2 | RESET | RESET | Resume to the default setting. |
| 3 | SYS | System indicator | If the indicator is always on, the system is started up. If the indicator flickers, the system works normally. |
| 4 | PoE | PoE indicator corresponding to each port | If the indicator is always on, the PoE works normally. If the indicator is off, the PoE does not work. |
| 5 | Lnk/Act | Lnk/Act indicator corresponding to each port | Green indicator is on: 10/100M is transmitted; Red indicator is on: 1000M is transmitted; No indicator is on: no signal is transmitted. |
| 6 | / | 8 RJ45 interfaces | Realizes the PoE function and forwards 10/100/1000M Ethernet electrical signals |
| 7 | Console | Console | Manages the switch locally. |
| 8 | / | 2 SFP ports | Realizes the forward of gigabit Ethernet optical signals. |

Distributed by

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