HIKVISION

DS-3E2528P
Gigabit Full Managed PoE Switch

Features and Functions

- DS-3E2528P 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-3E2528P has powerful ACL functions to access and control L2-L7 data, providing carriers flexible and various policy control methods;
- DS-3E2528P supports In-Service Software Upgrade (ISSU) to ensure the unremitting data forwarding during system upgrade;
- DS-3E2528P supports various L2 multicast functions such as IGMP-snooping, user fast-leave mechanism and trans-vlan multicast copy;
- DS-3E2528P 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-3E2528P supports the configuration of Base-T port priority when the power is inadequate.
- DS-3E2528P supports POE port and up to 4KV power thunder-proof.
- DS-3E2528P 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-3E2528P 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-3E2528P 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-3E2528P supports storm/multicast/unicast limit which ensures the normal running of equipment in harsh network conditions;
- DS-3E2528P supports perfect ring detection mechanism which ensures the long-term stable running of network;
- DS-3E2528P supports port isolation within the same VLAN, DHCP-Snooping, and IP plus MAC plus Port binding for ensuring user data security;
- DS-3E2528P supports many management modes such as the console port, Telnet, SSH;
- DS-3E2528P supports the WEB management mode, which is easy and efficient so that it makes installation and debugging convenient;
- DS-3E2528P supports TFTP-patterned file upload/download management;

Specifications

Item	DS-3E2528P
Port number	24 x 10/100/1000Base-T PoE ports, 4 1000Base-X SFP ports, 1 Console port
Switching capacity	56Gbps
Packet forwarding rate	42Mpps
MAC address table	8K
Dimensions(L × H × D)	440 mm × 45 mm × 232 mm
Consumption	<15W
POE standard	IEEE802.3af, IEEE802.3at
POE power budget	380W
Power supply	AC：100V-240V，50Hz±10%
Environment	Operating temperature/humidity: 0℃-45℃，5%-95% non-condensing Storage temperature/humidity: -20℃-70℃；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
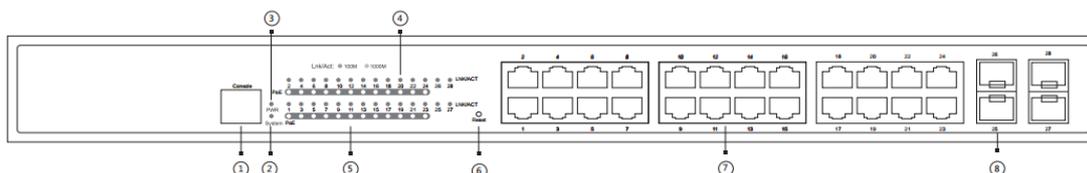
No.	Abbrev.	Name	Description
1	CONSOLE	Console port	Manages the switch locally.
2	SYS	System indicator	If the indicator is always on, the system is being started. If the indicator flickers, the system works normally.
3	PWR	Power indicator	If the switch is powered on, the indicator is on.
4	Link/ACT	LINK/ACT indicator of each port	If the indicator is on in green: 10/100M, If the indicator is on in red: 1000M If the indicator is not on: no signal is transmitted.
5	POE	POE indicator	If the indicator is always on: POE works normally; If the indicator is not on, POE does not work.
6	Reset	Reset switch	Return to the factory setting.
7	/	24 gigabit RJ45 ports	Forwards the 10/100M/1000M Ethernet electric signals and provides with POE functions.
8	/	4 SFP ports	Forwards 1000M Ethernet optical signals.