DS-3E3728-H
28 Port Core Switch



DS-3E3728-H is the latest development of Gigabit speed Layer 3 Ethernet switch. This powerful and highly secure switch series is built based on industry-leading high performance hardware architecture. It supports diversified services, high capacity GE access port as well as high density 10GE uplink, which meet the requirements for high density campus access and high performance aggregation

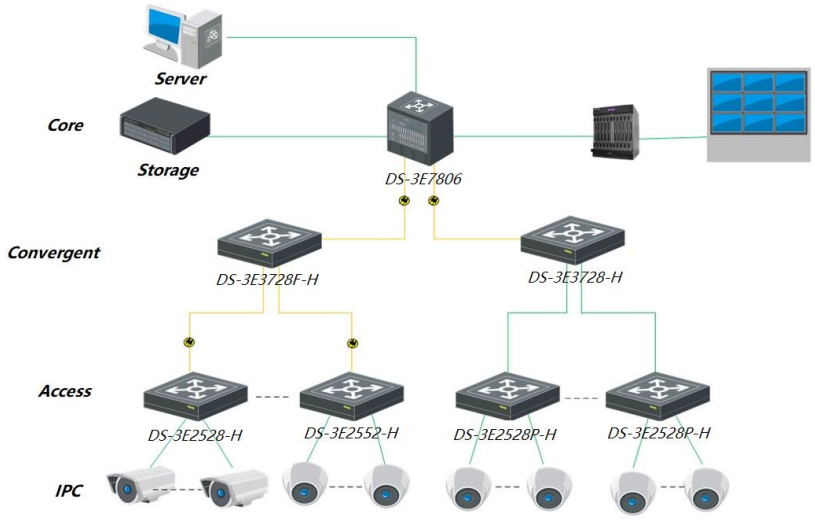
- DS-3E3700-H Series provide 24 or 48 Giga and 4 fixed 10GE ports onboard with one expansion slot. The high port density satisfy the requirements for hybrid configuration of copper ports and fiber ports at the distribution layer in large sized networks or at the core layer in SMB sized networks
- DS-3E3728-H Series comes with IPv4/IPv6 dual-stack platform which provides sophisticated IPv4/IPv6 solutions by supporting multiple tunnels, IPv4/IPv6 Layer 3 routing protocols, multicasting, and policy-based routing.
- 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.
- The switch supports unified MAC address authentication, 802.1x authentication, and portal authentication; dynamic or static binding of user identifiers such as user account, IP address, MAC address, VLAN, and port number; and dynamic application of user profiles or policies (such as VLAN, QoS, and ACL) on users.
- The switch supports Unicast Reverse Path Forwarding (uRPF), which protects a network against source spoofing attacks, preventing DoS and DDoS attacks.
- Apart from device level redundancy, the DS-3E3700-H series switch also provides diverse link redundancy support such as LACP/STP/RSTP/MSTP/Smart Link protocols. It supports virtualization redundancy backup as well as cross-device link aggregation which substantially increases network reliability.
- The DS-3E3728-H switch series adopts hot swappable dual-power supply, which allows you to configure AC or DC power supplies as needed. The switch can detect faults in power supplies, and will if any such faults are found, respond with an alarm. It can automatically adjust fan speed according to the temperature.
- The switch series supports hardware level encryption technology MACsec (802.1ae), which is an industry-standard security technology that provides secure communication for all traffic on Ethernet links. MACsec provides point-to-point security on Ethernet links between directly connected nodes and is capable of identifying and preventing most security threats.

▪ Specification

General	
Weight	≤6.7 kg
Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)
Operating Humidity	5% to 95% (no condensation)
Ports	24×10/100/1000BASE-T ports (including 8×combo interfaces), 4×10G/1G BASE-X SFP+ ports
Dimensions (mm)	440×360×43.6
Network Parameters	
Multicast	IGMP Snooping /MLD Snooping、Multicast VLAN
Switching Capacity	Whole-Device Performance: 598 Gbps Port Performance: 128 Gbps
Packet Forwarding Rate	Whole-Device Performance: 444.91 Mpps Port Performance: 95.23 Mpps
QoS	802.1p DSCP remarking Flexible queue scheduling algorithms based on ports and queues, including SP, WRR, WFQ and SP+WRR Committed access rate (CAR) Packet redirection Port rate limit (receiving and transmitting)
Key Feature	
Link aggregation	1G/10G/40G port aggregation Static aggregation/Dynamic aggregation Cross-device aggregation
VxLAN	VXLAN Layer 2 switching VXLAN routing switching VXLAN gateway
Ring network protocol	STP/RSTP/MSTP
Security	Hierarchical user management and password protection Guest VLAN 802.1X authentication, centralized MAC authentication RADIUS authentication MAC address learning limit Port isolation IP Source guard Dynamic ARP inspection, preventing man-in-the-middle attacks and ARP DoS attacks IP/Port/MAC binding
Management maintenance	Configuration through CLI, Telnet, and console port Ping, Tracert Loading and upgrading through XModem/FTP/TFTP SNMPv1/v2/v3 and Web-based NMS Remote monitoring (RMON) alarm, event, and history recording NTP

ACL	Packet filtering at L2 ~ L4 Traffic classification based on source MAC addresses, destination MAC addresses, source IPv4/IPv6 addresses Time range-based ACL VLAN-based ACL Bidirectional ACL
VLAN	Port-based VLAN MAC-based VLAN Protocol-based VLAN QinQ and selective QinQ
Software Function	
Port Mirroring	Port mirroring RSPAN Traffic mirroring
Routing Feature	Static routing RIPv1/v2 and RIPng OSPFv1/v2/v3 BGP and BGP4+ for IPv6
Power	
Power Input	AC：100V～240V AC，50/60Hz DC： -48V～-60V DC
Power Consumption	Single AC input: 87 W Dual AC inputs: 91 W Single DC input: 88 W Dual DC inputs: 95 W

▪ Typical Application



▪ Available Model

DS-3E3728-H

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