DS-3E3700-H Series

High Performance Ethernet Switches

Product overview

DS-3E3700-H Series 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-3E3728-H



DS-3E3728F-H



DS-3E3752-H

Ordering Information

Product ID	Product Description
DS-3E3728-H	24×10/100/1000BASE-T ports (including 8×combo interfaces), 4×10G/1G BASE-X SFP+ ports, 1×expansion slot, 2×fan tray slots, and 2×power module slots.
DS-3E3728F-H	24×SFP ports (including 8×combo interfaces), 4×10G/1G BASE-X SFP+ ports, 1×expansion slot, 2×fan tray slots, and 2×power module slots.
DS-3E3752-H	48×10/100/1000BASE-T ports, 4×10G/1G BASE-X SFP+ ports, 1×expansion slot, 2×fan tray slots, and 2×power module slots.

Module information

Product	Module information
DS-3E3728-H/ DS-3E3728F-H/ DS-3E3752-H	Input voltage: 100V～240V AC、50/60Hz; －48V～－60V DC Module：150W AC Power Module; 150W DC Power Module

Features and benefits

- 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-3E3700-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.
- The DS-3E3700-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.
- 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-3E3700-H switch series supports packet filtering at L2 (Layer 2) ~L4 (Layer 4), and traffic classification based on source MAC addresses, destination MAC addresses, source IP addresses, destination IP addresses, TCP/UDP port numbers, protocol types, and VLANs. It supports flexible queue scheduling algorithms based on ports and queues, including strict priority (SP), weighted round Robin (WRR), SP+WRR and WDRR. This series enables committed access rate (CAR) with the minimum granularity of 8 kbps. It supports port mirroring in the outbound and inbound directions, to monitor the packets on the specific ports, and to mirror the packets to the monitor port for network detection and troubleshooting.

Specifications

Item	DS-3E3728-H	DS-3E3728F-H	DS-3E3752-H
Service ports	24×10/100/1000BASE-T ports (including 8×combo interfaces), 4×10G/1G BASE-X SFP+ ports	24×SFP ports (including 8×combo interfaces), 4×10G/1G BASE-X SFP+ ports	48×10/100/1000BASE-T ports, 4×10G/1G BASE-X SFP+ ports
Switching capacity	288Gbps	288Gbps	336Gbps
Packet forwarding rate	216 Mpps	216 Mpps	252 Mpps
Dimensions (W×D×H) (mm)	440×360×43.6	440×360×43.6	440×360×43.6
Input voltage	AC: 100V～240V AC, 50/60Hz DC: -48V～-60V DC		
Power consumption (full configuration)	Single AC input: 87 W Dual AC inputs: 91 W Single DC input: 88 W Dual DC inputs: 95 W	Single AC input: 112 W Dual AC inputs: 116 W Single DC input: 113 W Dual DC inputs: 122 W	Single AC input: 88 W Dual AC inputs: 93 W Single DC input: 89 W Dual DC inputs: 96 W
Weight	≤6.7 kg	≤6.6 kg	≤7.0 kg
Operating temperature	0°C to 45°C (32° F to 113° F)		
Operating humidity	5% RH to 95% RH, non-condensing		
Layer 2 ring network protocol	STP/RSTP/MSTP		
VLAN	Port-based VLAN MAC-based VLAN Protocol-based VLAN QinQ and selective QinQ		
Port features	IEEE802.3x flow control (full duplex)		

	Storm control based on port rate percentage PPS/BPS-based storm contro
IP routing	Static routing RIPv1/v2 and RIPng OSPFv1/v2/v3 BGP and BGP4+ for IPv6
Multicast	IGMP Snooping /MLD Snooping、Multicast VLAN
SDN/Openflow	OpenFlow 1.3
VXLAN	VXLAN Layer 2 switching VXLAN routing switching VXLAN gateway
Link aggregation	1G/10G/40G port aggregation Static aggregation/Dynamic aggregation Cross-device aggregation
Mirroring	Port mirroring RSPAN Traffic mirroring
Stack	Distributed device management, distributed link aggregation, and distributed resilient routing Stacking through standard Ethernet interfaces Local device stacking and remote device stacking
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
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
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)
Management and 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

Typical Applications

