

DS-3E7803M 3 Slot Chassis Switch



The DS-3E7800 series switch is designed for the next-generation enterprise core networks. It adopts modular design, uses proprietary operating system and provides the following features:

- Triple times of per slot bandwidth and further enhanced chassis performance
- Rich Layer 2 & Layer 3 functionalities

The DS-3E7800 series switch can meet different port density and performance requirements.

- The DS-3E7800 switch provides a wealth of high-density 10G/40G interface cards, which can meet the existing and future application needs of enterprise networks:
 - Support 48-Port 10/100/1000BASE-T Ethernet Copper Interface Module.
 - Support 48-Port 1000BASE Ethernet Optical Interface Module.
 - Support 24-Port 10/100/1000BASE-T Ethernet Copper Interface(RJ45) + 20-Port 1000BASE Ethernet Optical Interface(SFP,LC) + 4-Port 10G Ethernet Optical Interface Module.
 - Support 16-Port 10G Ethernet Optical Interface(SFP+,LC) + 24-Port 1000BASE Ethernet Optical Interface Module.
 - Support 48-Port 10G Ethernet Optical Interface(SFP+,LC).
- 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 DS-3E7800 switch series supports Multi-VRF function, which can be used as MCE equipment supporting L3 MPLS VPN and L2 MPLS VPN (Martini and Kompella).
- The DS-3E7800 switch series comes with IPv4/IPv6 dual-stack platform that provides sophisticated IPv4/IPv6 solutions by supporting multiple tunnels, IPv4/IPv6 Layer 3 routing protocols, multicasting, and policy-based routing.
- The DS-3E7800 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. Compared with traditional application based software encryption technology, MACsec provides point-to-point security on Ethernet links between directly connected nodes and is capable of identifying and preventing most security threats.

▪ Specification

Model		DS-3E7803M
Network Parameters	Switching Capacity	1.28 Tbps
	Packet Forwarding Rate	800 Mpps
Software Function	Security	Hierarchical user management and password protection Portal authentication MAC authentication SSHv1.5/SSHv2 Basic and advanced Access Control Lists for packet filtering OSPF, RIPv2, BGPv4 pain text and MD5 authentication IP address, VLAN ID, MAC address multiple binding combination uRPF Active/standby data backup CPU DoS Protection ARP Attack Protection
	Multicast	PIM-DM, PIM-SM, PIM-SSM, MSDP, MBGP, and Any-RP IGMP V1/V2/V3 and IGMP V1/V2/V3 snooping MLD V1/V2 and MLD V1/V2 snooping
	Ethernet	IEEE 802.1P(CoS priority) IEEE 802.1Q VLAN (up to 4094 VLANs) IEEE 802.1ad (QinQ), selective QinQ and Vlan mapping LLDP Static MAC configuration Limited MAC learning Port mirroring and traffic mirroring Port aggregation, port isolation, and port mirroring IEEE 802.1D (STP)/802.1w (RSTP)/802.1s (MSTP) IEEE 802.3ad (dynamic link aggregation), static port aggregation, and multi-chassis link aggregation Jumbo frame Multicast VLAN DHCP snooping Broadcast/multicast/unknown unicast storm suppression Port based, Protocol based, Subnet-based and MAC based VLAN
	Routing	Static routing, RIP v1/v2, OSPF, IS-IS, and BGP4 IPv4/IPv6 ECMP VRRP IPv4/IPv6 dual stack IPv6 static routing, RIPng, OSPFv3, IS-ISv6, and BGP4+ VRRPv3
	ACL & QoS	Standard and extended ACLs Ingress and egress ACLs VLAN ACLs Global ACLs Ingress/Egress CAR with 8K granularity

		Diff-Serv QoS 802.1P/DSCP Priority marking and remarking 802.1p, TOS, DSCP, and EXP priority mapping Flexible queue scheduling algorithms including SP (Strict priority), WRR (Weighted Round Robin), SP+WRR, WFQ (Weighted Fair Queueing) Traffic shaping Rate limiting Congestion avoidance, Tail-Drop and WRED
	System Management	SNMP v1/v2/v3 NQA (Network Quality Analysis) RMON and groups 1, 2, 3 and 9 Fault alarm and automatic fault recovery System logs Device status monitoring mechanism, including the CPU engine, backplane, chips and other key components
	HA	1+1 redundancy for key components such as MPUs (MPU includes CPU + Switching Fabric) 1+1 redundancy for power modules Passive backplane Hot swapping for all components Real-time data backup on active/standby MPUs CPU protection VRRP NSR (Nonstop Routing)/GR (Graceful Restart) for OSFP/BGP/IS-IS/RSVP Port aggregation and multi-card link aggregation BFD for VRRP/BGP/IS-IS/OSPF/RSVP/static routing Ethernet OAM (802.1ag and 802.3ah) Smart-Link ISSU (In-service Software Upgrade)
General	Dimensions (W × H × D)	175.00 mm × 436.00 mm × 420.00 mm (6.89" × 17.17" × 16.54")
	Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
	Installation Mode	Rack (equipped with mounting ears)
	Gross Weight	33.55 kg (73.96 lb)
	Net Weight	26.55 kg (58.53 lb)
	Power Consumption in Idle	158.5 W
	Shell	Metal
	Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)
	Operating Humidity	5% to 95% (no condensation)
	Power Supply	100-240 V AC, 50/60 Hz, Max. 16 A
	Max. Power Consumption	301.5 W
	Relative Humidity	5% to 95% (no condensation)
	MPU slots	1-2
	LPU slots	1-2
	Module	DS-3E7803M-MPU-24T4X:24-Port 10/100/1000BASE-T Ethernet Copper Interface(RJ45)4-Port 10G Ethernet Optical Interface Module (SFP+,LC) DS-3E7803M-MPU-24F4X:24-Port 1000BASE Ethernet Optical

		Interface(SFP,LC)+4-Port 10G Ethernet Optical Interface Module (SFP+,LC) DS-3E7800-48X-SE:48-Port 10G Ethernet Optical Interface Module (SFP+,LC) DS-3E7800-16X24F-SC:16-Port 10G Ethernet Optical Interface(SFP+,LC)+24-Port 1000BASE Ethernet Optical Interface Module (SFP,LC) DS-3E7800-24T20F4X-SC:24-Port 10/100/1000BASE-T Ethernet Copper Interface(RJ45)+20-Port 1000BASE Ethernet Optical Interface(SFP,LC)+4-Port 10G Ethernet Optical Interface Module (SFP+,LC) DS-3E7800-48F-SC:48-Port 1000BASE Ethernet Optical Interface Module (SFP,LC) DS-3E7800-48T-SC:48-Port 10/100/1000BASE-T Ethernet Copper Interface Module (RJ45)
Approval	EMC	CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 2019, EN 50130-4: 2011+A1: 2014, EN 55035: 2017+A11: 2020)
	Safety	CE-LVD (EN 62368-1: 2014+A11: 2017),CB (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition)
	Chemistry	CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No.1907/2006)

▪ Available Model

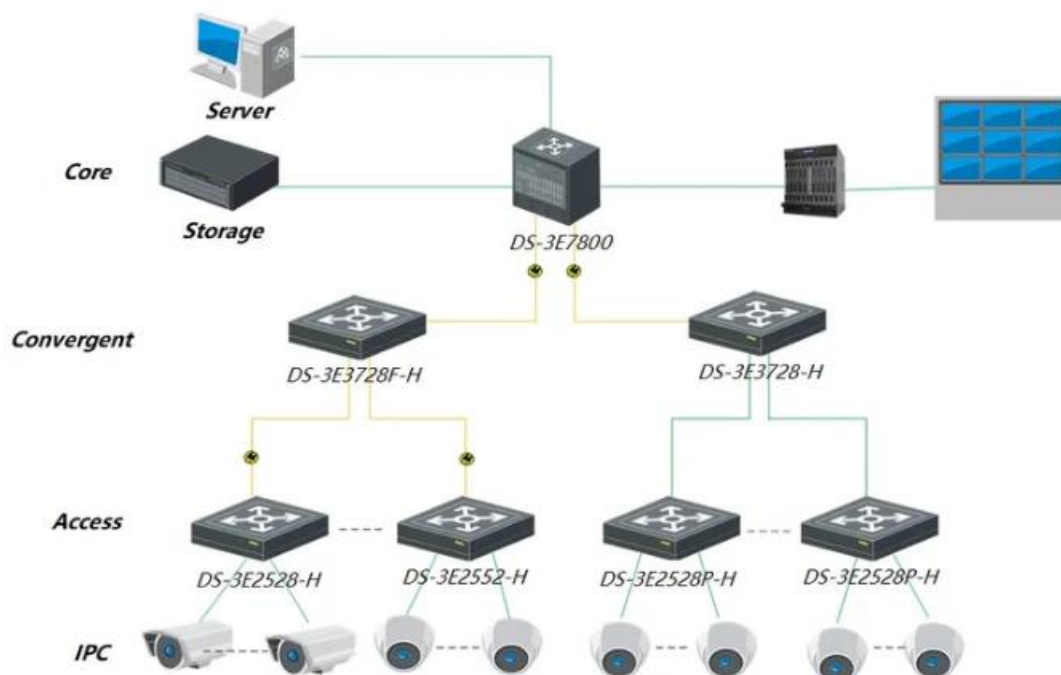
DS-3E7803M

DS-3E7803M-MPU-24T4X

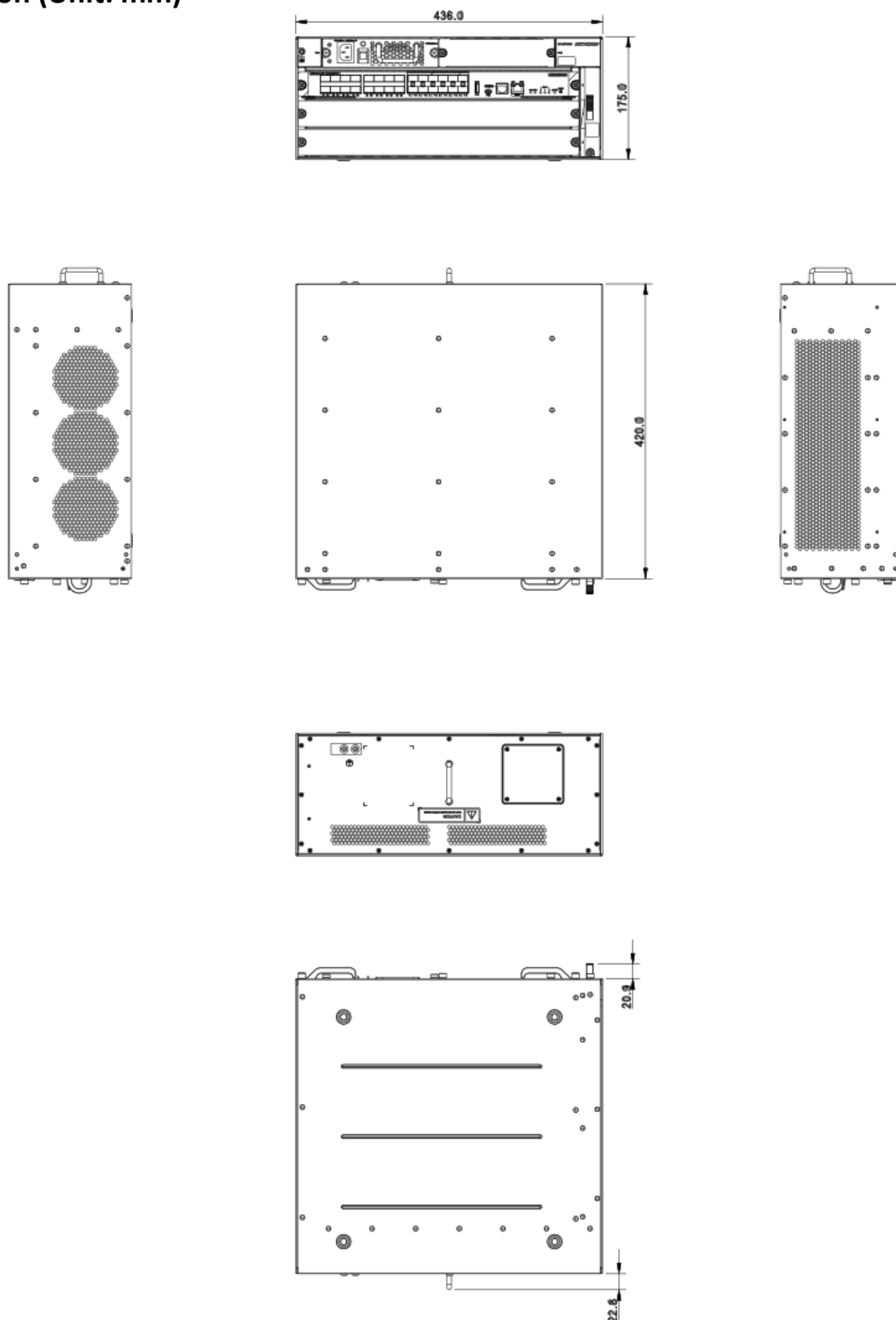
DS-3E7803M-MPU-24F4X

DS-3E7803-PWR300A

▪ Typical Application



▪ Dimension (Unit: mm)



Headquarters

No.555 Qianmo Road, Binjiang District,
Hangzhou 310051, China
T +86-571-8807-5998
www.hikvision.com



Follow us on social media to get the latest product and solution information.



Hikvision



HikvisionHQ



HikvisionHQ



Hikvision_Global



Hikvision
Corporate Channel



hikvisionhq