

DS-3E6603-HI DS-3E6603 Chassis Core Switch Frame



The DS-3E6603-HI switch is a managed chassis switch launched by HIKVISION for campus and enterprise networks. Based on the new generation of hardware and self-developed software platform, it provides line-rate switching services and further integrates various network services such as IP routing and network security. At the same time, it adopts a new energy-saving solution and innovative architecture design to achieve low power consumption, providing users with a green, energy-efficient, and feature-rich Ethernet switch product.

- Supports integrated Main Processing Unit (MPU) and Line Processing Unit (LPU) architecture, achieving higher performance at lower costs
- Supports Layer 3 routing protocols including OSPF, BGP, IS-IS, RIPv1/v2, policy-based routing (PBR), equal-cost multipath (ECMP) routing, and VRRP, enabling advanced IP routing and high-availability gateway deployment
- Supports G.8032 Ethernet Ring Protection Switching (ERPS) for sub-50 ms ring network protection and fast convergence
- Supports comprehensive QoS with 8 queues per port and multiple scheduling algorithms including SP, WRR, WFQ, SP+WRR, and SP+WFQ, along with traffic shaping, WRED, and priority marking/remarking for fine-grained traffic management
- Supports multi-layer security features including L2-to-L4 ACL filtering, DoS attack protection, CPU protection, IP Source Guard, port isolation, 802.1X and MAC authentication, RADIUS authentication, ARP attack protection, and HTTPS
- Supports 10 kV surge protection to reduce lightning-induced damage risks
- Supports hot-swappable modular fan unit and 1+1 dual power supply redundancy, enabling non-disruptive maintenance and continuous operation under PSU failure scenarios

▪ Specification

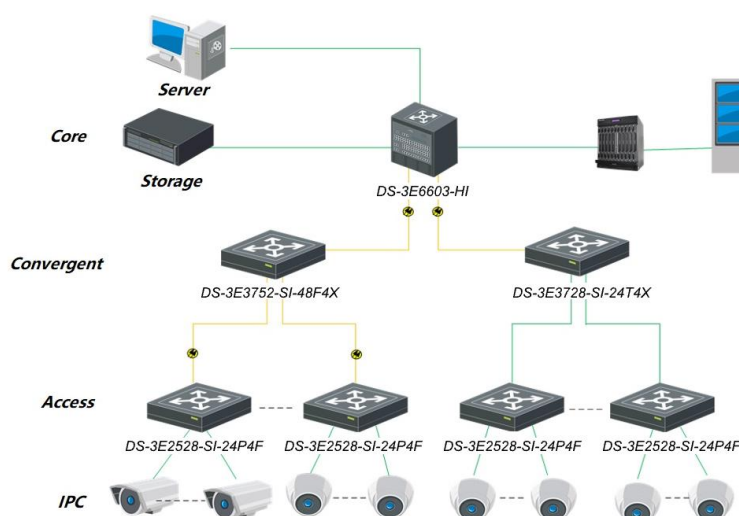
Hardware Specifications	
Switching Capacity	Port Performance: 960 Gbps Whole-Device Performance: 1440 Gbps
Packet Forwarding Rate	Port Wire-Speed Packet Forwarding Rate: 714.24 Mpps Whole-Device Packet Forwarding Rate: 1071.36 Mpps
Main Processing Unit (MPU) Slots	1 (Only slot 1 for both MPU and LPU)
Switching Fabric Unit (SFU) Slots	0 (No dedicated SFU slots)
Line Processing Unit (LPU) Slots	3 (Slot 1 for both MPU and LPU)
Power Supply Unit (PSU) Slots	2
Fan Slots	1
Power Supply	1+1 redundancy backup, 1 PSU included as standard
Fan	1 modular fan(s)
MAC Address Capacity	32 K
Cache	16 Mbits
Dimensions (W × H × D)	442.00 mm × 175.00 mm × 300.00 mm (17.40" × 6.90" × 11.80")
Net Weight	9.73 kg (21.45 lb)
Gross Weight	12.535 kg (27.63 lb)
Operating Temperature	0°C to 50°C (32°F to 122°F)
Operating Humidity	5% to 95% (no condensation)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Humidity	5% to 95% (no condensation)
Installation Mode	4U Rack Mounting (19" width)
Power Supply Method	Dual Power Input, AC: 100~240 V, 50/60 Hz, 3.5~7 A
Console Port	1 × Console Port
USB Port	1 × USB 2.0 Port
MGMT Port	Supported
Power Consumption (Idle)	Single AC: 100 W, Dual AC: 110 W
Power Consumption (Max. Load)	Single AC: 350 W, Dual AC: 380 W
Surge Protection	10 kV
Packing List	Switch × 1 AC Power Cord × 1 L-Shaped Bracket Kit × 1 Console Cable × 1 Grounding Cable × 1 Cable Retention Clip × 1 Rubber Foot × 4 Quick Start Guide × 1 Regulatory Compliance and Safety Information × 1
Service Features	
Flow Control	Supported
Link Aggregation	Supports static aggregation. Supports dynamic aggregation via LACP.
Auto-Negotiation	Gigabit SFP ports 25 to 48: 1G/100M rate adaptation 10 Gigabit SFP+ ports 49 to 50: 10G/1G rate adaptation

VLAN	Supports 4K VLANs. Supports port-based VLAN. Supports IP subnet-based VLAN. Supports QinQ. Supports flexible QinQ. Supports VLAN mapping. Supports Super VLAN.
Multicast	Supports IGMPv1/v2/v3 Snooping.
STP	Supports STP (IEEE 802.1d). Supports RSTP (IEEE 802.1w). Supports MSTP (IEEE 802.1s).
ERPS	Supports G.8032 ERPS.
Private Loop Detection	Supported
Storm Control	Supported
Traffic Suppression	Supported
Mirroring	Supports local port mirroring. Supports N:1 port mirroring. Supports flow mirroring.
IPv4 Service	Supports Ping. Supports Traceroute. Supports DNS. Supports ARP. Supports ARP Proxy.
IPv4 Routing	Supports static routing. Supports OSPFv2. Supports RIPv1/v2. Supports equal-cost multi-path (ECMP) routing. Supports policy-based routing (PBR). Supports VRRP.
IPv6 Service	Supports Telnet6. Supports FTP6. Supports TFTP6. Supports Traceroute6. Supports Neighbor Discovery (ND). Supports Path MTU (PMTU) Discovery. Supports ICMPv6.
IPv6 Routing	Supports IPv6 static routing.
DHCP	Supports DHCP Client. Supports DHCP Snooping. Supports DHCP Snooping Option 82/DHCP Relay Option 82. Supports DHCP Relay. Supports DHCP Server.
Cable Detection	Supports virtual cable test (VCT).
802.1X Authentication	Supported
MAC Authentication	Supported
RADIUS	Supports RADIUS authentication.

ACL	Supports L2 to L4 packet filtering. Supports ACL definitions based on source/destination MAC address, source/destination IP address, IP protocol type, TCP/UDP port number or port range, VLAN ID, etc. Supports Time Range-based ACLs. Supports ACL application globally, on ports, or to VLANs. Supports Basic ACL, Advanced ACL, and MAC ACL configurations. Supports inbound, outbound, and VLAN-based ACLs.
QoS	Supports 802.1p/DSCP priority mapping. Supports queue scheduling mechanisms including SP, WRR, WFQ, SP+WRR, and SP+WFQ. Supports traffic shaping. Supports WRED. Supports priority marking and remarking. Supports flow-based packet filtering. Supports flow-based traffic statistics. Supports flow-based redirection. Supports flow-based rate limiting. Supports 8 queues per port.
Security	Supports DoS attack protection. Supports CPU protection. Supports IP Source Guard. Supports port isolation. Supports HTTPS. Supports ARP detection. Supports ARP source suppression. Supports ARP attack protection. Supports IP-MAC binding. Supports port security.
LLDP	Supports LLDP.
Operation Management	
Topology Display	Supported
Status Alarm	Supported
Management Platform	Supports device management via web. Supports device management via iVMS-4200 Client. Supports device management via Hik-Partner Pro. Supports SADP. Supports device management via Unified Network Management Platform.
SSH	Supported
Telnet	Supported
SNMP	Supports SNMPv1. Supports SNMPv2c. Supports SNMPv3.
Clock Management	Supports NTP.
RMON	Supported
sFlow	Supported
FTP	Supported

TFTP	Supported
DDM	Fiber optical ports support DDM.
Log	Supports system logs.
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	CB (IEC 62368-1: 2023, CE-LVD (EN 62368-1: 2024+A11: 2024)
Chemistry	Reach (Regulation (EC) No.1907/2006),WEEE (2012/19/EU),CE-RoHS (2011/65/EU)

▪ Typical Application



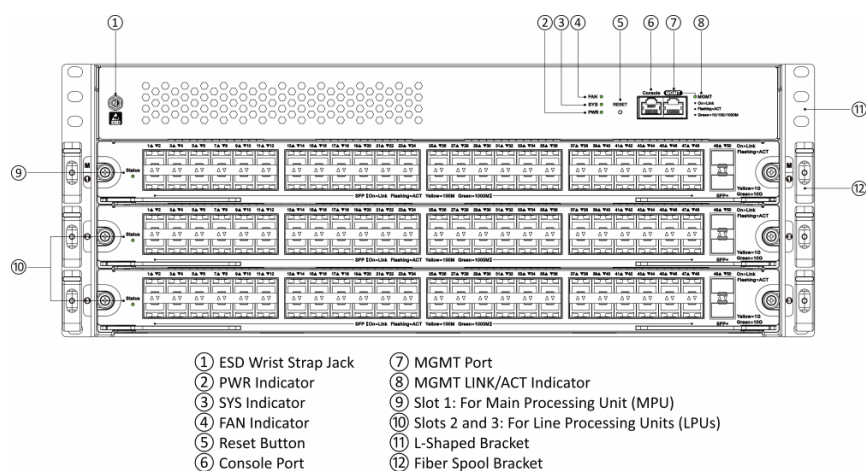
▪ Available Product

Interface Module Specifications

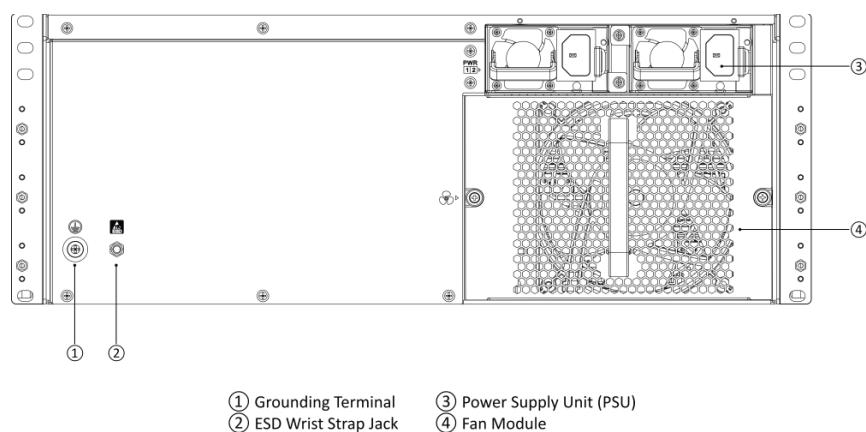
Product Model	Product Description	Compatible Chassis	Installable Slot
DS-3E6600-24T24F2X-SA	24 × Gigabit Ethernet port (RJ45) + 24 × Gigabit SFP port + 2 × 10 Gigabit SFP+ port	DS-3E6600	Slots 1 to 3
DS-3E6600-48F2X-SA	48 × Gigabit SFP port + 2 × 10 Gigabit SFP+ port	DS-3E6600	Slots 1 to 3
DS-3E6600-24T2X-SA	24 × Gigabit Ethernet port (RJ45) + 2 × 10 Gigabit SFP+ port	DS-3E6600	Slots 1 to 3
DS-3E6600-24F2X-SA	24 × Gigabit SFP port + 2 × 10 Gigabit SFP+ port	DS-3E6600	Slots 1 to 3
DS-3E6600-16X-SA	16 × 10 Gigabit SFP+ port	DS-3E6600	Slots 1 to 3
DS-3E6603-PWR550A	550 W AC power module	DS-3E6600	Slots PWR1 and PWR2
DS-3E6600-FAN	Fan module with rated power ≤ 40 W	DS-3E6600	Slot FAN1

Physical Interface

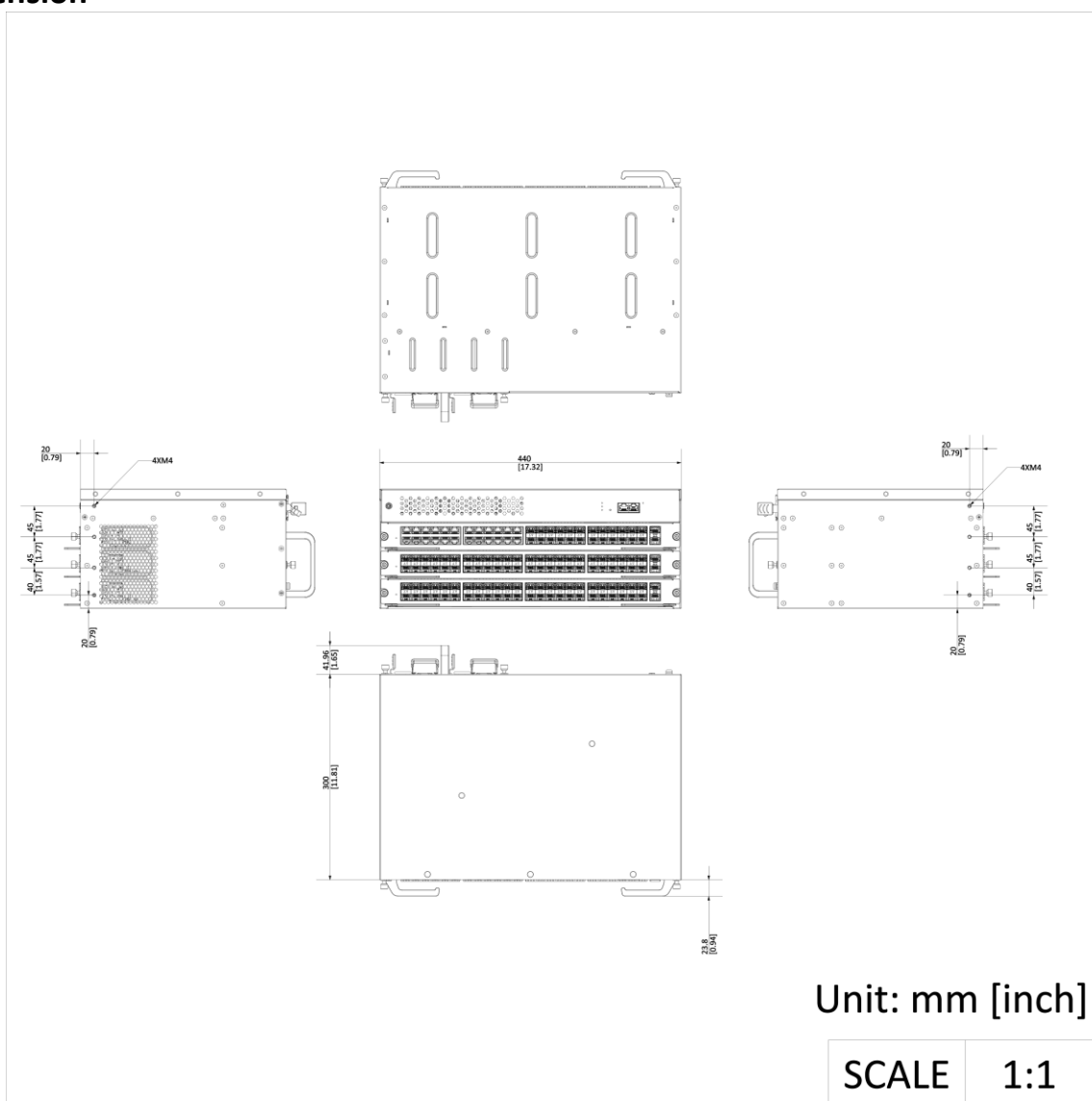
Front Panel



Rear Panel



Dimension



▪ **Accessory**

▪ **Optional**

DS-3E6600-FAN	DS-3E6603-PWR550A	DS-3E6600-24T24F2X-SA	DS-3E6600-48F2X-SA	DS-3E6600-16X-SA
				
DS-3E6600-24T2X-SA	DS-3E6600-24F2X-SA			
				

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