DS-3E2510P-SI-8P2F
8 Gigabit PoE RJ45 and 2 Gigabit SFP Switch



DS-3E2510P-SI-8P2F is a new generation Gigabit Ethernet PoE switch product designed to meet the demands of secure, intelligent surveillance networks. It provides advanced Ethernet PoE power supply technology, comprehensive security access policies, and enhanced network management and maintenance usability, making it an ideal secure and user-friendly access layer switch.

- Supports management via Hik-Partner Pro app.
- Supports management via unified network management platform (UNMP).
- Supports port isolation, storm control, MAC binding, and port mirroring.
- Supports STP/RSTP/MSTP, which can eliminate loops in LAN.
- Supports L3 IPv4/IPv6 static route forwarding.
- Supports port rate limiting and flow rate limiting functions to prevent malicious bandwidth occupation. It has rich queue scheduling algorithms, which can place packets into the output queue of the port with different priorities.
- Uses professional built-in lightning protection technology, supports industry-leading 6 kV service port lightning protection capability, and greatly reduces the damage rate of equipment by lightning strikes even in harsh working environments.

▪ Specification

Hardware Specifications	
Port	8 × Gigabit PoE port,2 × Gigabit SFP port
Switching Capacity	20 Gbps
Packet Forwarding Rate	14.88 Mpps
Power Supply	1 fixed PSU(s)
Fan	Fanless
Cache	4.1 Mbits
Dimensions (W × H × D)	266.0 mm × 44.5 mm × 220.8 mm (10.47'' × 1.75'' × 8.69'')
Net Weight	1.77 kg (3.90 lb)
Gross Weight	2.63 kg (5.80 lb)
Operating Temperature	0°C to 45°C (32°F to 113°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	1U Rack Mounting (10'' width)
Power Supply Method	AC: 100-240 V, 50/60 Hz, 2.5 A
Console Port	1 × Console Port
Power Consumption (Max. Load)	Single AC: 150 W (PoE: 125 W)
Surge Protection	6 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
PoE Power Supply	
PoE Standard	IEEE 802.3af,IEEE 802.3at
PoE Port	PoE: Ports 1 to 8
Max. Port Power	30 W
PoE Power Budget	125 W
PoE Power Pin	8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-)
PoE Watchdog	Supported
Scheduled PoE	Supported
PoE Compatibility Mode	Supported
Perpetual PoE	Supported PoE remains active during system reboot, except in cases of power outage or PSE firmware upgrade.
Performance Specifications	
Flash Memory	32 MB
System Memory	256 MB
MAC Address Capacity	8 K
Jumbo Frame Size	10000 bytes

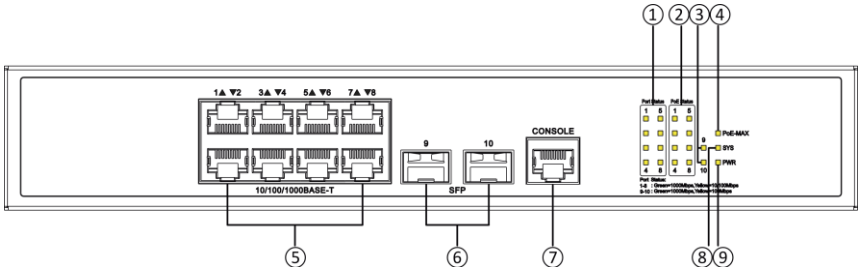
VLANs	4094
VLANIF Interfaces	8
IPv4 Routes	256
IPv6 Routes	256
ARP Entries	1024
System-wide L2 Multicast Entries	256
ACL Entries	1024
QoS Forwarding Queues	8
Service Features	
Flow Control	Supported
Link Aggregation	Supports static aggregation. Supports dynamic aggregation via LACP.
Auto-Negotiation	Gigabit SFP ports 9 to 10: 1G/100M rate adaptation
VLAN	Supports 4K VLANs. Supports port-based VLAN. Supports IP subnet-based VLAN. Supports protocol-based VLAN. Supports Private VLAN (PVLAN). Supports MVRP/GVRP. Supports QinQ. Supports flexible QinQ. Supports VLAN mapping.
Multicast	Supports IGMPv1/v2/v3 Snooping. Supports MLDv1/v2 Snooping.
STP	Supports STP (IEEE 802.1d). Supports RSTP (IEEE 802.1w). Supports MSTP (IEEE 802.1s).
ERPS	Supports G.8032 ERPS.
RRPP	Supported
Private Loop Detection	Supported
Storm Control	Supported
Traffic Suppression	Supported
Mirroring	Supports local port mirroring. Supports remote 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.

IPv6 Service	Supports IPv4/IPv6 dual stack. Supports Ping6. Supports Telnet6. Supports FTP6. Supports TFTP6. Supports Traceroute6. Supports Neighbor Discovery (ND). Supports Path MTU (PMTU) Discovery. Supports DNSv6. Supports ICMPv6.
IPv6 Routing	Supports IPv6 static routing.
DHCP	Supports DHCP Client. Supports DHCP Snooping. Supports DHCP Snooping Option 82. Supports DHCPv6 Client. Supports DHCPv6 Snooping.
Cable Detection	Supports virtual cable test (VCT). Supports device link detection protocol (DLDP).
802.1X Authentication	Supported
MAC Authentication	Supported
RADIUS	Supports RADIUS authentication.
TACACS+	Supports TACACS+ authentication.
ACL	Supports L2 to L4 packet filtering. Supports ACL definitions based on source/destination MAC address, source/destination IP address (IPv4/IPv6), IP protocol type, TCP/UDP port number or port range, 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 priority mapping. Supports queue scheduling mechanisms including SP, WRR, SP+WRR. Supports priority marking and remarking. Supports flow-based packet filtering. Supports flow-based traffic statistics. Supports flow-based redirection. Supports flow-based rate limiting.
Security	Supports DoS attack protection. Supports CPU protection. Supports IP Source Guard (IPv4/IPv6). Supports port isolation. Supports HTTPS. Supports ARP detection. Supports ND snooping. Supports IP-MAC binding.
LLDP	Supports LLDP. Supports CDP.

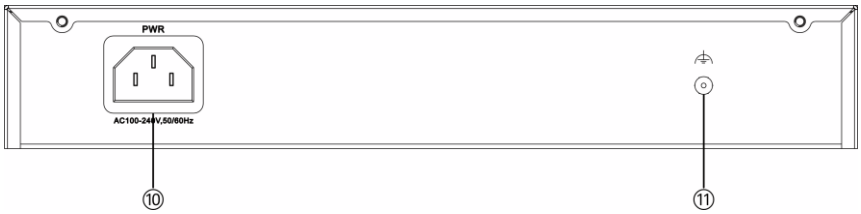
Operation Management	
Topology Display	Supported
Status Alarm	Supported
Management Platform	Supports device management via web interface. Supports device management via iVMS-4200 Client. Supports device management via Unified Network Management Platform. Supports device management via Hik-Partner Pro app. Supports SADP. Supports AR-based port visualization.
SSH	Supports SSHv2.
Telnet	Supported
SNMP	Supports SNMPv1. Supports SNMPv2c. Supports SNMPv3.
Clock Management	Supports NTP.
RMON	Supported
sFlow	Supports counter sampling.
FTP	Supported
TFTP	Supported
CFM	Supported
EFM	Supported
Y.1731	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	CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No.1907/2006)

▪ Physical Interface

Front Panel

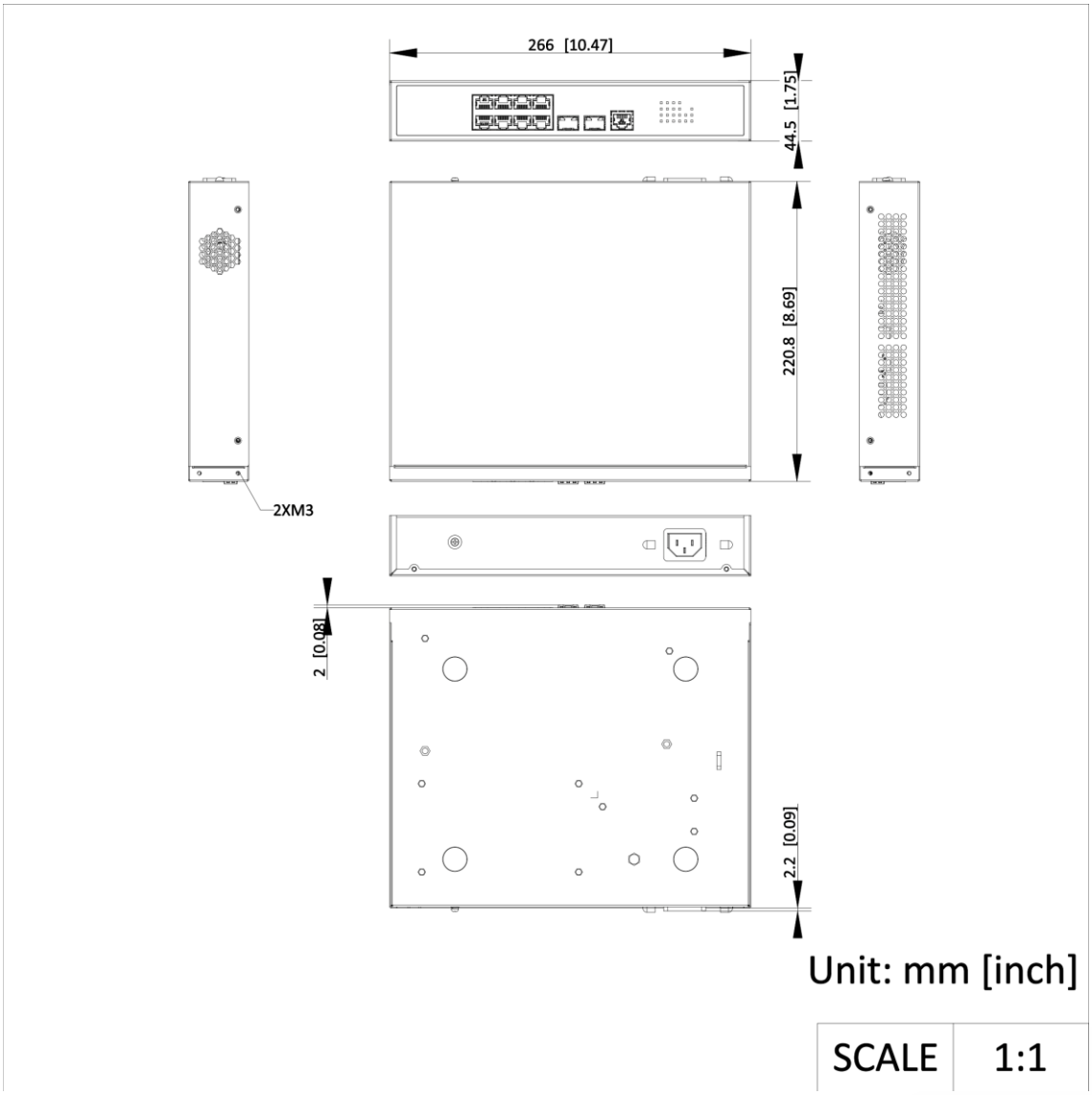


Rear Panel



No.	Indicator/Port	No.	Indicator/Port
①	Port Status Indicator	⑦	Console Port
②	PoE Status Indicator	⑧	SYS Indicator
③	SFP Fiber Optical Port Indicator	⑨	PWR Indicator
④	PoE-MAX Indicator	⑩	Power Supply
⑤	10/100/1000 Mbps PoE RJ45 Port	⑪	Grounding Terminal
⑥	SFP Fiber Optical Port		

▪Dimension


266 [10.47]
44.5 [1.75]
220.8 [8.69]
2XM3
2 [0.08]
2.2 [0.09]
Unit: mm [inch]
SCALE 1:1

See Far, Go Further

www.hikvision.com
support@hikvision.com

© Hangzhou Hikvision Digital Technology Co., Ltd. Unless otherwise agreed, Hikvision makes no warranties, express or implied. We reserve the right to introduce modifications without notice.

HIKVISION®