

## **DS-3E2510-SI-8T2F** **8 Gigabit RJ45 and 2 Gigabit SFP Switch**



DS-3E2510-SI-8T2F is a new generation Gigabit Ethernet switch product designed to meet the demands of secure, intelligent surveillance networks. It features rich business capabilities and is widely used for access in enterprise networks and campus networks.

- 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 10 kV service port lightning protection capability, and greatly reduces the damage rate of equipment by lightning strikes even in harsh working environments.

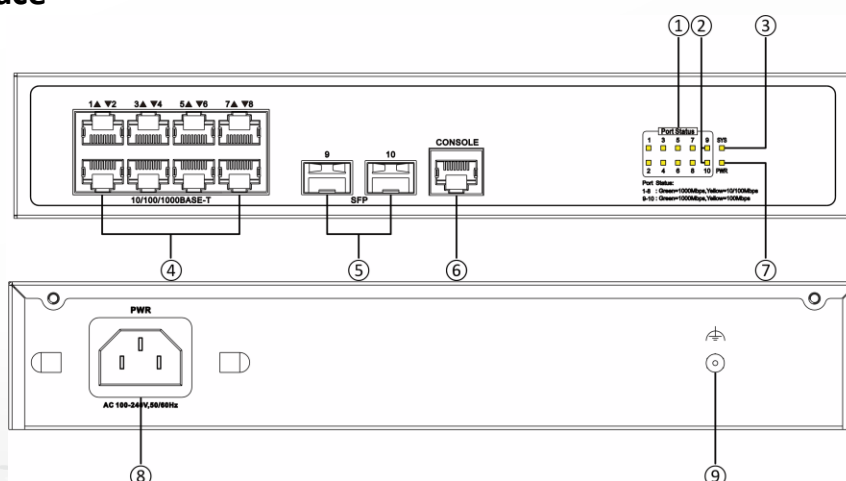
## ▪ Specification

| General                |                                                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions (W × H × D) | 257.0 mm × 44.5 mm × 175.8 mm (10.12" × 1.75" × 6.92")                                                                                                                                                                    |
| Net Weight             | 1.15 kg (2.53 lb)                                                                                                                                                                                                         |
| Gross Weight           | 2.00 kg (4.43 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)                                                                                                                                                                                        |
| Relative Humidity      | 5% to 95% (no condensation)                                                                                                                                                                                               |
| Installation Mode      | Rack-Mounted (1U height, 10-inch width)                                                                                                                                                                                   |
| Power Supply Method    | AC: 100-240 V, 50/60 Hz, 0.3 A                                                                                                                                                                                            |
| Console Port           | 1 × Console Port                                                                                                                                                                                                          |
| Power Supply Unit      | 1 fixed PSU(s)                                                                                                                                                                                                            |
| Fan                    | Fanless                                                                                                                                                                                                                   |
| Power Consumption      | ≤ 12 W                                                                                                                                                                                                                    |
| Surge Protection       | 10 kV                                                                                                                                                                                                                     |
| Packing List           | Switch × 1<br>AC Power Cord × 1<br>L-Shaped Bracket Kit × 1<br>Console Port Cable × 1<br>Grounding Cable × 1<br>Clip × 1<br>Plastic Foot × 4<br>Quick Start Guide × 1<br>Regulatory Compliance and Safety Information × 1 |
| Network Parameters     |                                                                                                                                                                                                                           |
| Ports                  | 8 × Gigabit RJ45 port, 2 × Gigabit fiber optical port                                                                                                                                                                     |
| Switching Capacity     | 20 Gbps                                                                                                                                                                                                                   |
| Packet Forwarding Rate | 14.88 Mpps                                                                                                                                                                                                                |
| MAC Address Capacity   | 8 K                                                                                                                                                                                                                       |
| Cache                  | 4.1 Mbits                                                                                                                                                                                                                 |
| Software Function      |                                                                                                                                                                                                                           |
| Link Aggregation       | Support static link aggregation., Support dynamic LACP.                                                                                                                                                                   |
| Auto-Negotiation       | Fiber optical ports 9 to 10: 1G/100M auto-negotiation                                                                                                                                                                     |
| VLAN                   | IP subnet-based VLAN, Protocol-based VLAN, MAC-based VLAN, MVRP, VLAN mapping, Port-based VLAN, 4K VLAN                                                                                                                   |
| Multicast              | Support MLD Snooping<br>IGMPv1/v2 Snooping                                                                                                                                                                                |
| STP                    | Support STP.<br>Support RSTP.<br>Support MSTP.                                                                                                                                                                            |
| ERPS                   | Support G.8032 ERPS.                                                                                                                                                                                                      |
| RRPP                   | Support RRPP.                                                                                                                                                                                                             |
| Private Loop Detection | Support loop detection.                                                                                                                                                                                                   |
| Storm Control          | Support storm control.                                                                                                                                                                                                    |
| Traffic Suppression    | Support traffic suppression.                                                                                                                                                                                              |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mirroring              | Support local port mirroring.<br>Support remote port mirroring.<br>Support N:1 port mirroring.<br>Support traffic mirroring.                                                                                                                                                                                                                                                                                                                                                         |
| IPv4 Service           | Support Ping.<br>Support Telnet.<br>Support Trace.<br>Support DNS.<br>Support ARP.<br>Support ARP Proxy.                                                                                                                                                                                                                                                                                                                                                                             |
| IPv4 Route             | Support IPv4 static routing.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| IPv6 Service           | Support IPv4 and IPv6 dual stacks.<br>Support neighbor discovery (ND).<br>Support PMTU discovery.<br>Support DNS over IPv6.<br>Support ICMPv6.                                                                                                                                                                                                                                                                                                                                       |
| IPv6 Route             | Support IPv6 static routing.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DHCP                   | Support DHCP client.<br>Support DHCP snooping.<br>Support DHCP snooping Option 82.<br>Support DHCPv6 client.<br>Support DHCPv6 snooping.                                                                                                                                                                                                                                                                                                                                             |
| Cable Test             | Support virtual cable test (VCT).<br>Support device link detection protocol (DLDP).                                                                                                                                                                                                                                                                                                                                                                                                  |
| RADIUS Authentication  | Support RADIUS authentication.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TACACS+ Authentication | Support TACACS+ authentication.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 802.1X Authentication  | Support 802.1X authentication.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| MAC Authentication     | Support MAC authentication.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ACL                    | Support L2-L4 packet filtering functionality.<br>Support ACL definitions based on source and destination MAC addresses, source and destination IP addresses (IPv4/IPv6), IP protocol type, TCP/UDP port numbers or port ranges, and VLAN IDs.<br>Support Time Range-based ACLs.<br>Support configuration of basic, advanced, and MAC ACLs.<br>Support ACL application by port, VLAN, or globally. Support Expert ACL functionality.<br>Support inbound and outbound ACL enforcement. |
| QoS                    | Support 802.1p/DSCP priority mapping.<br>Support queue scheduling mechanisms (SP, WRR, SP+WRR).<br>Support packet priority marking and remarking.<br>Support flow-based packet filtering.<br>Support flow-based traffic statistics.<br>Support flow-based packet redirection.<br>Support flow-based rate limiting.<br>Support 8 queues per port.<br>Support tail drop congestion control policy.                                                                                     |

|                             |                                                                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Security                    | Support DoS attack protection.<br>Support CPU attack protection.<br>Support IP Source Guard (IPv4/IPv6).<br>Support port isolation.<br>Support HTTPS.<br>Support ARP detection.<br>Support ND snooping.<br>Support IP-MAC binding.                                               |
| LLDP                        | Support LLDP and CDP.                                                                                                                                                                                                                                                            |
| <b>Operation Management</b> |                                                                                                                                                                                                                                                                                  |
| Topology Display            | Support topology display.                                                                                                                                                                                                                                                        |
| Status Alarm                | Support status alarm.                                                                                                                                                                                                                                                            |
| Management Platform         | Support device management via web.<br>Support SADP.<br>Support device management via Hik-Partner Pro.<br>Support device management via Hik-Central Pro.<br>Support device management via iVMS-4200 Client.<br>Support device management via Unified Network Management Platform. |
| SSH                         | Support SSHv2.                                                                                                                                                                                                                                                                   |
| Telnet                      | Support Telnet.                                                                                                                                                                                                                                                                  |
| SNMP                        | Support SNMPv1.<br>Support SNMPv2c.<br>Support SNMPv3.                                                                                                                                                                                                                           |
| NTP                         | Support NTP.                                                                                                                                                                                                                                                                     |
| RMON                        | Support RMON.                                                                                                                                                                                                                                                                    |
| sFlow                       | Support counter sampling.                                                                                                                                                                                                                                                        |
| FTP                         | Support FTP.                                                                                                                                                                                                                                                                     |
| TFTP                        | Support TFTP.                                                                                                                                                                                                                                                                    |
| CFM                         | Support CFM.                                                                                                                                                                                                                                                                     |
| EFM                         | Support EFM.                                                                                                                                                                                                                                                                     |
| Y.1731                      | Support Y.1731.                                                                                                                                                                                                                                                                  |
| DDM                         | Fiber optical ports support DDM.                                                                                                                                                                                                                                                 |
| Log                         | Support system logs.                                                                                                                                                                                                                                                             |

## Physical Interface

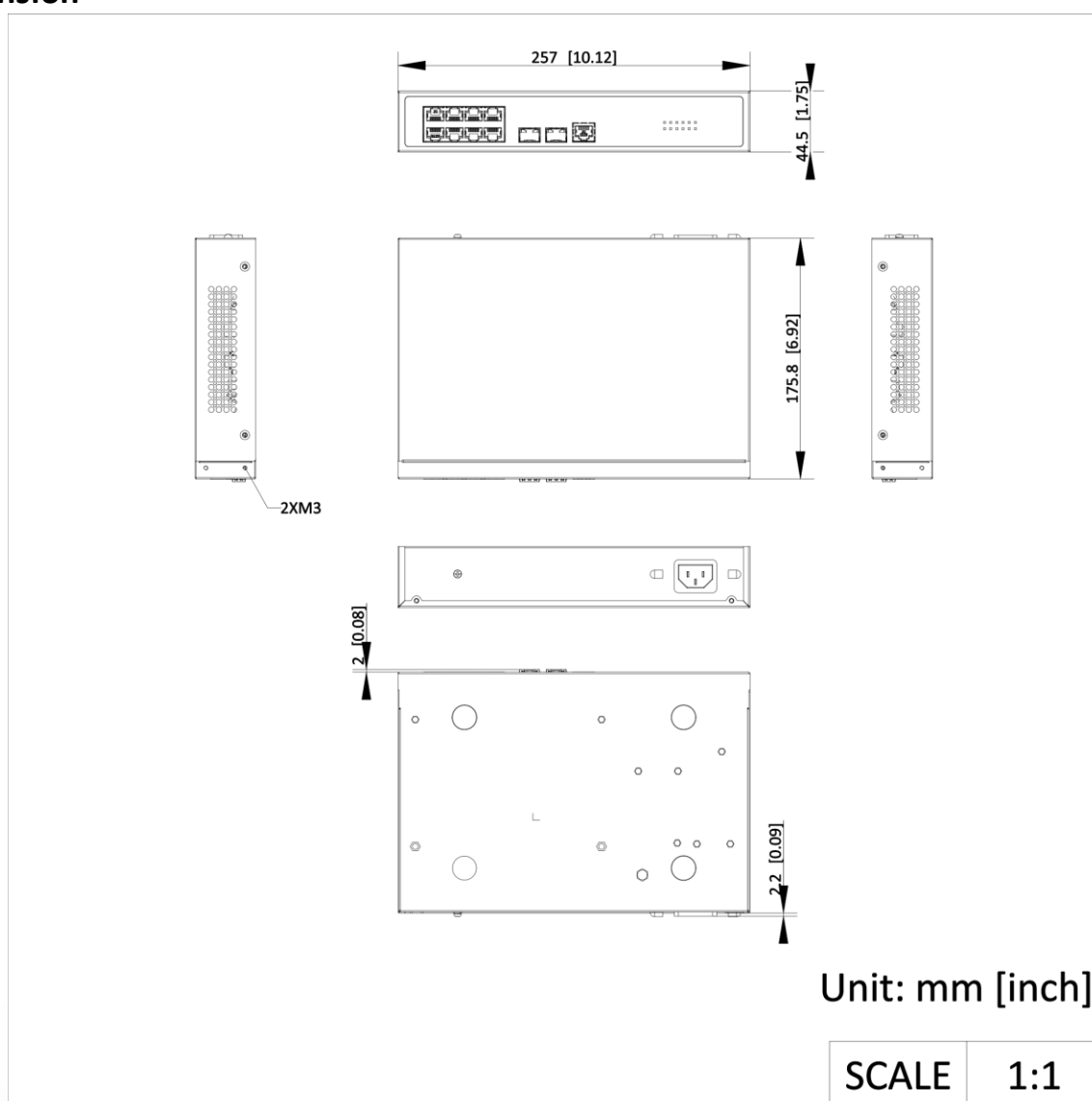


| No. | Indicator/Port                   | No. | Indicator/Port     |
|-----|----------------------------------|-----|--------------------|
| ①   | Port Status Indicator            | ⑥   | Console Port       |
| ②   | SFP Fiber Optical Port Indicator | ⑦   | PWR Indicator      |
| ③   | SYS Indicator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

## ▪ Available Model

DS-3E2510-SI-8T2F

## ▪ Dimension



# See Far, Go Further



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