

DS-3E3752-SI-48F4X**48 Gigabit SFP and 4 10-Gigabit SFP+ Switch**

DS-3E3752-SI-48F4X is a green and energy-saving L3 Gigabit Ethernet switch product with rich service features, widely used for access or aggregation in enterprise and campus networks. It provides 10-Gigabit uplink optical ports on the basis of Gigabit access, along with more comprehensive security access policies and stronger network management and maintenance usability, making it an ideal choice for network construction.

- Provides 48 Gigabit SFP ports and 4 10-Gigabit SFP+ ports.
- Supports IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z standards.
- 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 static routing, OSPFv2, RIPv1/v2, BGP, IS-IS, equal-cost multipath routing, policy-based routing, VRRP.
- Supports port rate limiting and flow rate limiting functions to prevent malicious network 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 business port lightning protection capability, which can greatly reduce the damage rate caused by lightning strikes to the equipment even in harsh working environments.

▪ Specification

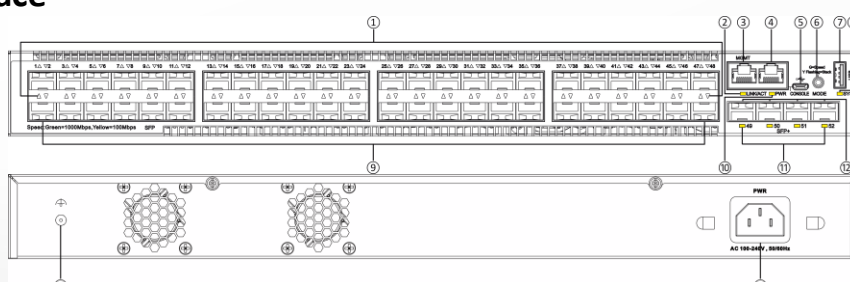
General	
Dimensions (W × H × D)	442.0 mm × 44.0 mm × 283.3 mm (17.7" × 1.73" × 11.15")
Net Weight	3.98 kg (8.77 lb)
Gross Weight	5.69 kg (12.54 lb)
Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)
Operating Humidity	5% to 95% (no condensation)
Storage Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Relative Humidity	5% to 95% (no condensation)
Installation Mode	Rack-Mounted (1U height, 19-inch width)
Power Supply Method	AC: 100-240 V, 50/60 Hz, 2.1 A
Console Port	2 × Console Port
USB Port	1 × USB 2.0 Port
Management Port	Support management port.
Power Supply Unit	1 fixed PSU(s)
Fan	2 fixed fan(s)
Power Consumption	≤ 150 W
Surge Protection	10 kV
Packing List	Switch × 1 AC Power Cord × 1 L-Shaped Bracket Kit × 1 Console Port Cable × 1 Grounding Cable × 1 Clip × 1 Plastic Foot × 4 Quick Start Guide × 1 Regulatory Compliance and Safety Information × 1
Network Parameters	
Ports	48 × Gigabit fiber optical port, 4 × 10G fiber optical port
Switching Capacity	216 Gbps
Packet Forwarding Rate	160.7 Mpps
MAC Address Capacity	32 K
Cache	16 Mbits
Software Function	
Link Aggregation	Support static link aggregation., Support dynamic LACP.
Auto-Negotiation	Fiber optical ports 1 to 48: 1G/100M auto-negotiation, Fiber optical ports 49 to 52: 10G/1G auto-negotiation
VLAN	Support port-based VLAN. Support IP subnet-based VLAN. Support protocol-based VLAN. Support MAC-based VLAN. Support Private VLAN. Support Super VLAN. Support MVRP/GVRP. Support VLAN Mapping., 4K VLAN

Multicast	Support IGMP Snooping. Support MLD Snooping. Support IGMP. Support PIM. Support PIMv6. Support MLD.
STP	Support STP. Support RSTP. 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. Support remote port mirroring. Support N:1 port mirroring. Support traffic mirroring.
IPv4 Service	Support Ping. Support Telnet. Support Trace. Support DNS. Support ARP. Support ARP Proxy.
IPv4 Route	Support IPv4 static routing. Support OSPFv2. Support RIPv1/v2. Support BGP. Support IS-IS for IPv4. Support equal-cost multi-path (ECMP) routing. Support policy-based routing. Support VRRP for IPv4. Support BFD for IPv4. Support FRR.
IPv6 Service	Support IPv4 and IPv6 dual stacks. Support Ping6. Support Telnet over IPv6. Support FTP over IPv6. Support TFTP over IPv6. Support Traceroute6. Support neighbor discovery (ND). Support PMTU discovery. Support IPv6 tunnels. Support GRE tunnels.

IPv6 Route	- Support IPv6 static routing. - Support OSPFv3. - Support RIPng. - Support BGP4+. - Support IS-IS for IPv6. - Support ECMP routing. - Support VRRP for IPv6. - Support BFD for IPv6. - Support FRR.
DHCP	- Support DHCP client. - Support DHCP snooping. - Support DHCP snooping Option 82. - Support DHCP relay. - Support DHCP relay Option 82. - Support DHCP server. - Support DHCPv6 client. - Support DHCPv6 snooping. - Support DHCPv6 relay. - Support DHCPv6 server.
RADIUS Authentication	Support RADIUS authentication.
TACACS+ Authentication	Support TACACS+ authentication.
802.1X Authentication	Support 802.1X authentication.
MAC Authentication	Support MAC authentication.
Portal Authentication	Support portal authentication.
ACL	- Support L2-L4 packet filtering functionality. - 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. - Support Time Range-based ACLs. - Support configuration of basic, advanced, and MAC ACLs. - Support ACL application by port, VLAN, or globally. Support Expert ACL functionality. - Support inbound and outbound ACL enforcement.
QoS	- Support 802.1p/DSCP priority mapping. - Support queue scheduling mechanisms (SP, WRR, SP+WRR). - Support queue scheduling mechanisms (WFQ, SP+WFQ). - Support WRED. - Support packet priority marking and remarking. - Support flow-based packet filtering. - Support flow-based traffic statistics. - Support flow-based packet redirection. - Support flow-based rate limiting. - Support 8 queues per port. - Support tail drop congestion control policy.

Security	Support DoS attack protection. Support CPU attack protection. Support IP Source Guard (IPv4/IPv6). Support port isolation. Support HTTPS. Support ARP detection. Support ARP source suppression. Support ARP attack protection. Support ND snooping. Support IP-MAC binding. Support port security.
NQA	Support NQA.
LLDP	Support LLDP and CDP.
Operation Management	
Topology Display	Support topology display.
Status Alarm	Support status alarm.
Management Platform	Support device management via web. Support SADP. Support device management via Hik-Partner Pro. Support device management via Hik-Central Pro. Support device management via iVMS-4200 Client. Support device management via Unified Network Management Platform.
SSH	Support SSHv2.
Telnet	Support Telnet.
SNMP	Support SNMPv1. Support SNMPv2c. 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

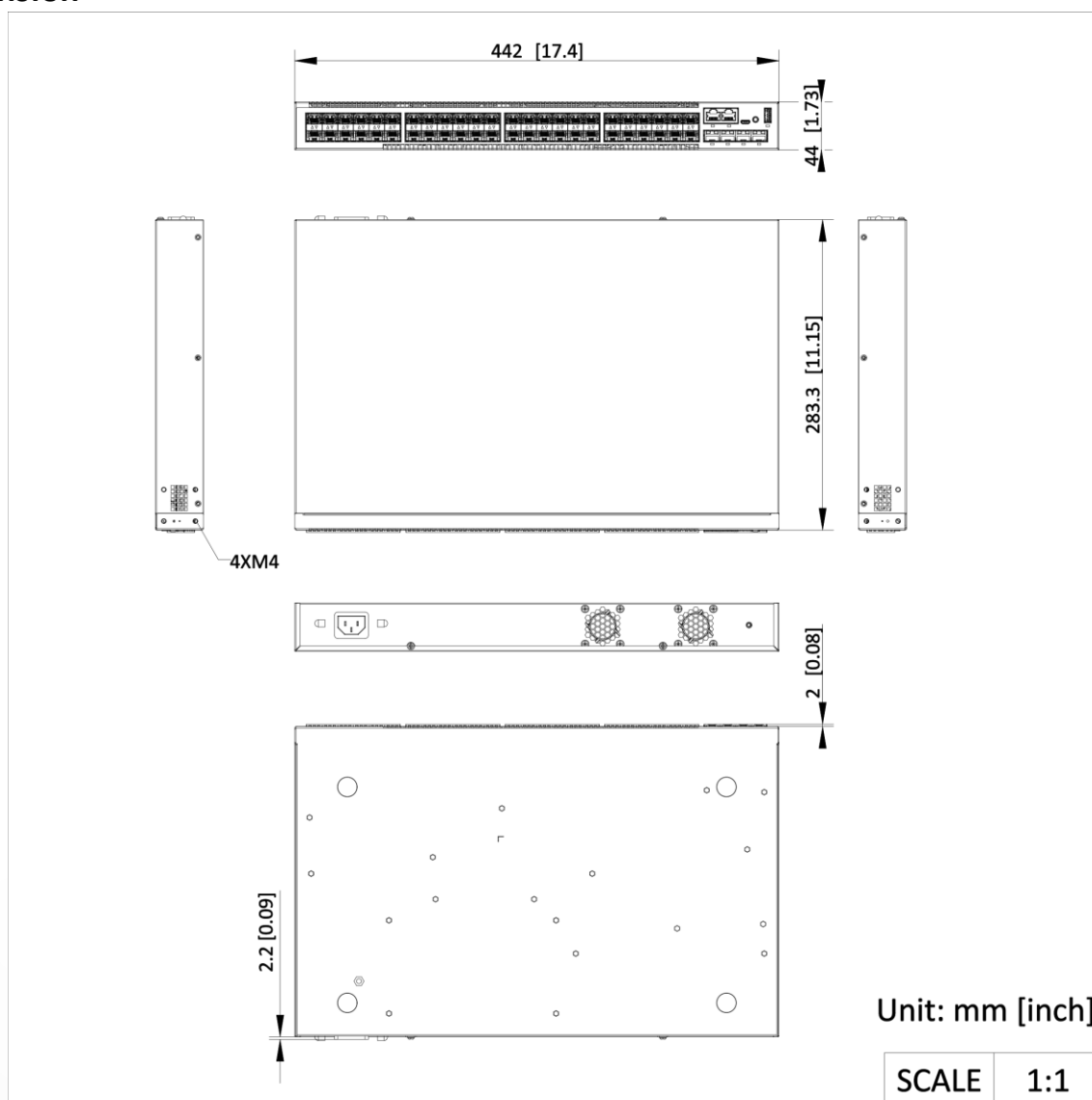


No.	Indicator/Port	No.	Indicator/Port
①	SFP Fiber Optical Port Indicator	⑧	SYS Indicator
②	MGMT LINK/ACT Indicator	⑨	SFP Fiber Optical Port
③	MGMT Port	⑩	PWR Indicator
④	Console Port	⑪	SFP+ Fiber Optical Port Indicator
⑤	Micro USB Console Port	⑫	SFP+ Fiber Optical Port
⑥	Indicator Mode Selection Button	⑬	Grounding Terminal
⑦	USB Port	⑭	Power Supply

▪ Available Model

DS-3E3752-SI-48F4X

▪ Dimension



See Far, Go Further



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