

DS-3T3728P Industrial PoE L3 Switch



The DS-3T3728P is the latest managed POE industrial switch, featuring 24-port gigabit PoE+ 4-port 10G SFP+. Designed for industrial applications, supports rich Layer-2/Layer-3 routing and industrial ring network protocols, its hardware-based algorithm can ensure node self-healing time less than 5 milliseconds, and the ring network self-healing time less than 50 milliseconds (typical value), it offers low power consumption and comprehensive functionalities including IGMP snooping, IEEE 802.1Q VLAN, port-based VLAN, QoS, and port mirroring. A dedicated management serial port enables configuration, system file backup, and firmware upgrades. Its rugged aluminum alloy housing ensures long-term stability in industrial or harsh environments.

- Lightning protection level: 4KV
- IP40 protection, industrial fanless thermal conduction.
- Supports dual DC wide-voltage industrial power input.
- Supports relay alarm, Phoenix terminal output.
- Business ports, management ports, power input terminals, and relay terminals are located on the front panel, complying with industrial operation specifications.
- Supports STP/EAPS/ERPS.
- Supports node self-healing time less than 5 milliseconds, and ring network self-healing time less than 50 milliseconds (typical value).
- Supports layer-3 static routing, dynamic routing (RIP, OSPF), Virtual Router Redundancy Protocol (VRRP).
- Supports virtual stacking.
- Supports to form a self-healing ring between any two ports, and supports multiple independent self-healing rings.
- Provides Data Leakage Prevention (DLP), to quickly recover from network failures.
- Supports simple network management protocol (SNMP) and Pallas cloud operating platform.
- The mean time between failures (MTBF): more than 800,000 hours.

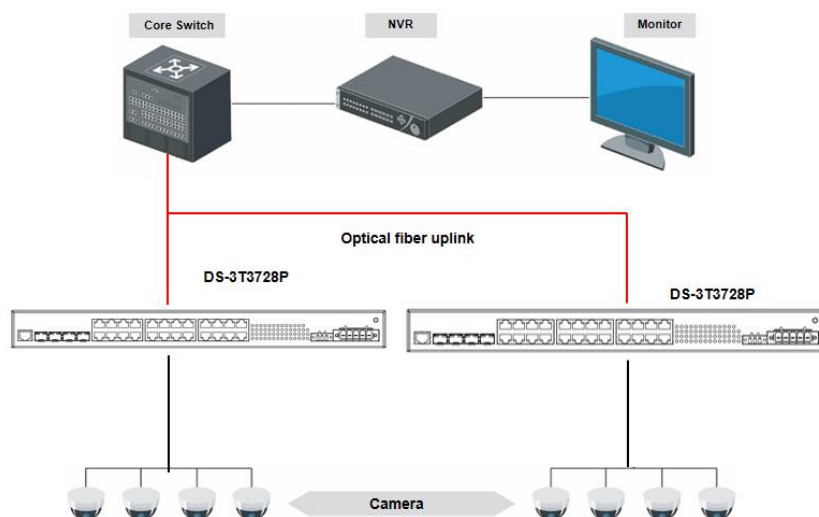
▪ Specification

General	
Net Weight	2.1 kg (4.6 lb)
Gross Weight	2.4 kg (5.3 lb)
Dimension (W × H × D)	440 mm × 44 mm × 200 mm (17.32" × 1.73" × 7.87")
Working Temperature	-40°C to 75°C (-40°F to 167°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Working Humidity	5% to 95% (no condensation)
Storage Humidity	5% to 95% (no condensation)
Power Supply	Dual DC; 48~54V
Max. Power Consumption	400 W
Shell	Metal material, IP40
Network Parameters	
MAC Address Table	8 K
Ports	24 × Gigabit PoE port, 4 × 10G fiber optical port
Switching Capacity	Whole-Device Performance: 336 Gbps Port Performance: 128 Gbps
Packet Forwarding Rate	Whole-Device Performance: 189 Mpps Port Performance: 95 Mpps
Software Function	
QoS	Traffic classification of port/L2~4 protocol headers/VLAN/CoS/DSCP CAR traffic control 802.1P/DSCP priority mapping and remark Multiple queuing algorithms such as SP, WRR or SP+WRR Tail-Drop, WRED Traffic supervision and traffic shaping 8 queues per port Rate-limit based on MAC/IP/COS/DSCP/TOS/EXP/any
VLAN	4K VLAN IDs, 4094 active VLAN, 64 SVI GVRP 1:1 and N:1 VLAN Mapping QinQ and selective QinQ Private VLAN Voice-VLAN Port-based VLAN MAC-based VLAN Protocol-based VLAN

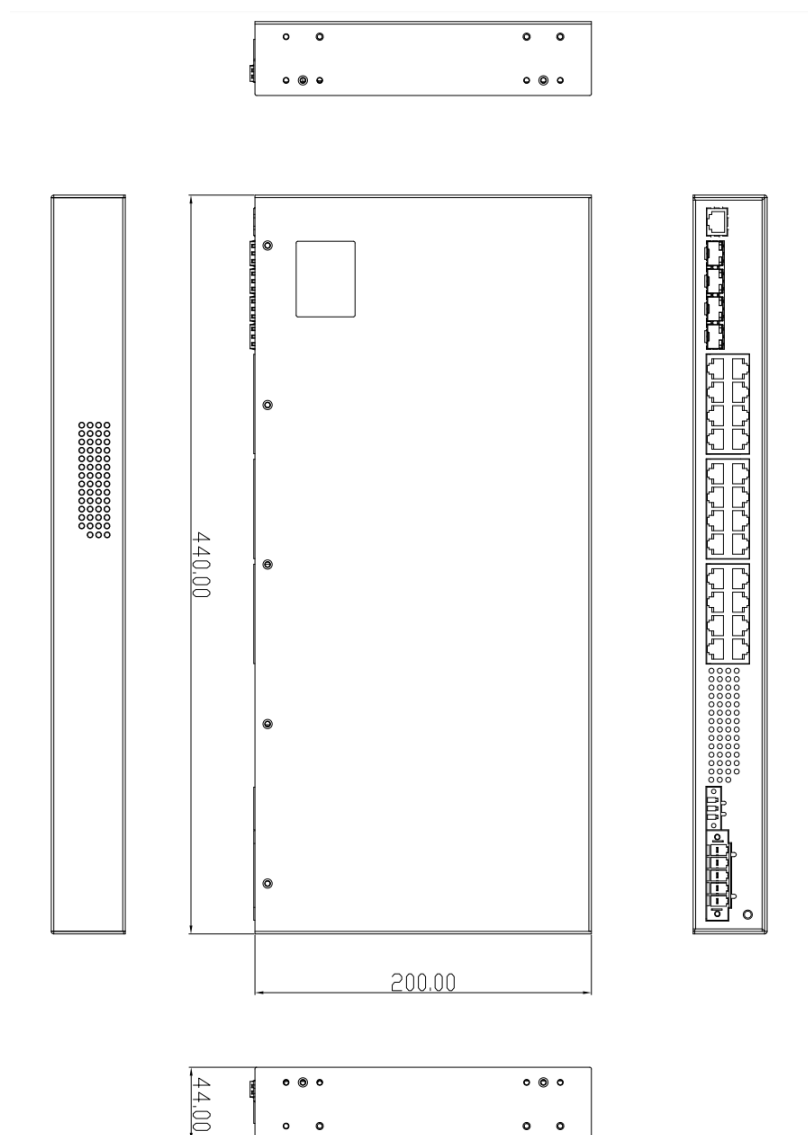
Management Method	CLI: Console, Telnet, SSHv1/2 Web-GUI: HTTP, HTTPS/SSL SNMP v1/v2c/v3, RMON, SNMP alarm/inform/traps MIB-I, MIB-II Upload and download of FTP/TFTP files Debugging Syslog for alarm/notification/command/debug NTP-4 SPAN, RSPAN (1:1 and N:1 port mirror) LLDP, LLDP-MED ZTP (Zero Touch Provisioning) Optical DDM Ethernet cable diagnosis
Reliability	Static and LACP link aggregation, 64 groups, up to 8 ports in one group Load-balance based src-MAC/src-IP/dst-MAC/dst-IP/src-port/dst-port and any combination EAPS, ERPS(recovery time≤50ms) ERPS revertive and non-revertive operation mode ISSU Loopback-detection
Security	L2~L4 ingress/egress ACL (895 IPv4 FP, 384 IPv6 FP) Anti-DOS/IP spoofing/TCP/ping/SYN/ICMP flood attacks CPU protection Broadcast/multicast/unknown-unicast storm-control Port isolation Port Security, MAC address limitation, IP+MAC+port binding DHCP Snooping, DHCP Option 82 DAI(Dynamic ARP Inspection) IPSPG(IP Source Guard) IEEE 802.1x authentication MAC-based authentication AAA Radius, TACACS+ Multiple user privileges
Multicast	IGMP v1/v2/v3(1024 groups) IGMP Snooping IGMP Fast Leave Multicast group policy and multicast number limit Multicast filtering Support for transparent passing of multicast traffic without IGMP snooping in certain port and VLAN
PoE Power Supply	
PoE Standard	IEEE 802.3af, IEEE 802.3at
PoE Power Pin	4-pin power: 1/2(+), 3/6(-)
PoE Port	PoE: Ports 1 to 24
Max. Port Power	30 W

PoE Power Budget	370 W
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 (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition))
Chemistry	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2007)

▪ Typical Application



▪ Dimension



▪ Accessory

▪ Optional



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