

Product: [MTS2848TF-4X-E](#) 

MAMMUTHUS Layer3 Gigabit Ethernet Switch



Product Description

1U rack mount, 32 × FE/GE TX, 16 × 100/1000M SFP slots, 4 × 1/10G SFP+ slots, modular redundant PSU, enhanced software

Technical Specifications

Product description

| | |
|-------------------------|--|
| Type: | MTS2848TF-4X-E |
| Name: | MTS2848TF-4X-E |
| Description: | 1U rack mount, 32 × FE/GE TX, 16 × 100/1000M SFP slots, 4 × 1/10G SFP+ slots, modular redundant PSU, enhanced software |
| Part Number: | 942999849 |
| Port type and quantity: | 32 × FE/GE TX, 16 × 100/1000M SFP slots, 4 × 1/10G SFP+ slots, 1 × RJ45 Console port, 1 × USB 2.0, no Reset Button |
| Heat Radiation Type: | Fixed fan |

More Interfaces

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| Power Supply: | 2 × modular redundant PSUs, hot swappable |
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Power requirements

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| Operating Voltage: | 100-240VAC 50-60Hz, redundancy PSU supported |
| Power consumption: | 55W |

Ambient conditions

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| Permissible Humidity (Storage/Transport): | 5% to 95% |
| Operating temperature: | -10-+55 °C |
| Storage/transport temperature: | -40-+70 °C |
| Relative humidity (non-condensing): | 10-90 % |

Mechanical construction

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| Width: | 442 mm |
| Height: | 44.2 mm |
| Depth: | 420 mm |
| Weight: | 8.5 kg |
| Mounting: | Rack mount |

Software Specifications

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|---|-------------------|---|
| Data link layer protocol and technology | LAN | MAC address learning amount limit; static Mac configuration; black hole MAC |
| | | Dynamic and static ARP; proxy ARP; free ARP |
| | | Ethernet; Ethernet II; VLAN; 802.3x; 802.1p; 802.1Q; 802.3ad |
| | | Q-in-Q and flexible Q-in-Q; VLAN mapping |
| | | STP/RSTP/MST; GVRP; Super VLAN; PVLAN; Voice VLAN; Monitor link; BPDU TUNNEL; PPPOE+ |
| Security | | Multi to one port mirroring; multi to multiport mirroring; RSPAN |
| | Security features | IPv4/v6 ACL; AAA; 802.1X; RADIUS; TACACS+; SSH; port security; user classification; port isolation; UNI/NNI isolation; DHCP snooping; DAI; ARP check; IP source guard; CPU protection |
| | Attack protection | URPF; LAND attack; SYN Flood attack; Smurf attack; Ping Flood attack; TearDrop attack; Ping of Death attack |
| Network protocol | Routing protocol | Static router; RIP v1/v2; OSPF; BGP; ISIS; RIPng; OSPFv3; BGP4; ISISv6; ECMP; Network load balancing |

| | | |
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| | Multicast protocol | IGMP PROXY; IGMP filter; MLD v1/v2; IGMP Snooping; MLD v1/v2 Snooping; PIM-DM; PIM-SM; PIM-SDM; PIM-SSM |
| | IP application | DHCP Server; DHCP Client; DHCP Relay; DHCP Snooping; DHCPv6 Server; DHCPv6 Client; DHCPv6 Relay; DNS; Ping; FTP Server; FTP Client; IP Accounting; UDP Helper; NTP |
| | IPv6 | IPv6 basic function: IPv6 ND, IPv6 PMTU, IPv6 ACL, DS-Lite, IPv4/v6 Dual Stack |
| | IPv6 Tunneling | IPv6 manual tunnel; GRE tunnel; Ipv4/Ipv6 compatible automatic tunnel, 6to4 tunnel, ISATAP tunnel |
| QoS | Traffic classification | Based on port/MAC address/IP address/IP priority/DSCP priority/TCP or UDP port number/ protocol type etc. |
| | Traffic policing | CAR |
| | Congestion management | SP; WRR; SP+WRR |
| | Congestion avoidance | RED; WRED |
| Virtualization | Virtualization technology | Stacking, up to 8 devices |
| Management | Network management | Console port; HTTP; Telnet; SSH management; SNMP v1/v2/v3; RMON 1/2/3/9; SYSLOG; DDMI |
| | Line management | VCT; UDLD |
| | Traffic analysis | sFlow traffic analysis |
| OAM | SLA | Including network delay/network jitter/packet loss rate test |
| Reliability | Link reliability | BFD for OSPF/VRP etc.; Keepalive Gateway; VRRP/VRRPv6; ERPS(G.8032) ring network protocol |
| Data center feature | | VXLAN; EVPN; XML API/NETCONF; M-LAG |

Mechanical stability

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| IEC 60068-2-6 vibration: | 1 mm, 2 Hz-13.2 Hz, 90 min.; 0.7 g, 13.2 Hz-100 Hz, 90 min.; 3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min.; 1 g, 9 Hz-150 Hz, 10 cycles, 1 octave/min |
| IEC 60068-2-27 shock: | 15 g, 11 ms duration, 18 shocks |

EMC interference immunity

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| EN 61000-4-2 electrostatic discharge (ESD): | 4 kV contact discharge, 8 kV air discharge |
| EN 61000-4-3 electromagnetic field: | 10V/m (80-1000MHz), 3V/m (1000-6000MHz) |
| EN 61000-4-4 fast transients (burst): | 2 kV power line, 1 kV data line |
| EN 61000-4-5 surge voltage: | power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line |
| EN 61000-4-6 Conducted Immunity: | 10 V (150 kHz-80 MHz) |
| EN 61000-4-8 power freq magnetic field: | 30A/m |
| EN 61000-4-11 voltage dips, short interrupt: | 0%(20ms), 40%(300ms), 70%(500ms), 0%(5s) |

EMC emitted immunity

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|--------------------|----------------------------|
| EN 55032: | EN 55032 Class A |
| EN 61000-3-2: | EN 61000-3-2 Class A |
| EN 61000-3-3: | EN 61000-3-3 |
| FCC CFR47 Part 15: | FCC 47CFR Part 15, Class A |

Approvals

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|-----------------------------------|---|
| FCC: | CE/FCC Compliant |
| China Network Access Certificate: | Compliant |
| CCC: | Compliant |
| Common Criteria: | EAL 2+ |
| RoHS Compliant: | RoHS(EU) 2015/863) and RoHS(GB/T26572-2011) compliant |

Scope of delivery and accessories

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| Accessories to Order Separately: | Network Management Industrial HiVision, SFP, extended line card |
| Scope of delivery: | Device, console cable, installation package, ""Power cord does not included in the package |

History

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| Update and Revision: | Revision Number: 0.18 Revision Date: 09-27-2023 |
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