



Product: MTS2848-6X-S ☑

# MAMMUTHUS Layer3 Gigabit Ethernet Switch



# **Product Description**

1U rack mount,  $48 \times FE/GE\ TX$ ,  $6 \times 1/10G\ SFP+\ slots$ , fixed redundancy power supply, standard software

# **Technical Specifications**

## **Product description**

| Type:                   | MTS2848-6X-S   |
|-------------------------|--|
| Name:                   | MTS2848-6X-S   |
| Description:            | 1U rack mount, 48 × FE/GE TX, 6 × 1/10G SFP+ slots, fixed redundancy power supply, standard software |
| Part Number:            | 942999843  |
| Port type and quantity: | 48 × FE/GE TX, 6 × 1/10G SFP+ slots, 1 × RJ45 Console port, 1 × USB 2.0, no Reset Button             |
| Heat Radiation Type:    | Fixed fan  |

#### **More Interfaces**

|               | a management and a small |  |
|---------------|--------------------------|--|
| Power Supply: | 2 × Fixed redundant PSUs |  |
|               |                          |  |

## **Power requirements**

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

## **Ambient conditions**

| 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**

| Width:    | 442 mm     |
|-----------|------------|
| Height:   | 44.2 mm    |
| Depth:    | 320 mm     |
| Weight:   | 5.8 kg     |
| Mounting: | Rack mount |

## **Software Specifications**

| 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; Voice VLAN; Monitor link; BPDU TUNNEL; PPPOE+   |
|   |                   | Multi to one port mirroring; multi to multiport mirroring; RSPAN  |
| Security                                | 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; ECMP; Network load balancing  |

|                      | Multicast protocol        | IGMP PROXY; IGMP filter; MLD v1/v2; IGMP Snooping; MLD v1/v2 Snooping  |
|----------------------|---------------------------|--|
|                      | 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   |
| 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          | Keepalive Gateway; VRRP; ERPS(G.8032) ring network protocol  |
| Data Center Features |                           | Netconf; M-LAG   |

## **Mechanical stability**

| 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

| 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 voltagedips,shortinterrupt:   | 0%(20ms), 40%(300ms), 70%(500ms), 0%(5s)                        |

#### **EMC** emitted immunity

| 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**

| 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

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

# History

| Update and Revision: | Revision Number: 0.71 Revision Date: 09-27-2023 |  |
|----------------------|---|--|
|----------------------|---|--|

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