

**Product:** [MTS2824-6X-E](#) 

## MAMMUTHUS Layer3 Gigabit Ethernet Switch



### Product Description

1U rack mount, 24 × FE/GE TX, 6 × 1/10G SFP+ slots, fixed redundancy power supply, enhanced software

### Technical Specifications

#### Product description

|                         |  |
|-------------------------|--|
| Type:                   | MTS2824-6X-E   |
| Name:                   | MTS2824-6X-E   |
| Description:            | 1U rack mount, 24 × FE/GE TX, 6 × 1/10G SFP+ slots, fixed redundancy power supply, enhanced software |
| Part Number:            | 942999842  |
| Port type and quantity: | 24 × 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

|               |                          |
|---------------|--------------------------|
| Power Supply: | 2 × Fixed redundant PSUs |
|---------------|--------------------------|

#### Power requirements

|                    |  |
|--------------------|--|
| Operating Voltage: | 100-240VAC 50-60Hz, redundancy PSU supported |
| Power consumption: | 37W  |

#### 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:   | 5.4 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; PVLAN; 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; BGP; ISIS; RIPng; OSPFv3; BGP4; ISISv6; ECMP; Network load balancing  |

|                     |                           |  |
|---------------------|---------------------------|--|
|                     | 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

|                          |   |
|--------------------------|---|
| 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 voltage dips, short interrupt: | 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: 0.65 Revision Date: 09-27-2023 |
|----------------------|---|

© 2023 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.