HIRSCHMANN
A BELDEN BRAND

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

Power Supply:	2 × modular redundant PSUs, hot swappable

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
Minimum Storage Temperature:	-40-+70 °C
Relative humidity (non-condensing):	10-90 %

Mechanical construction

Overall Width:	442 mm
Overall Height:	44.2 mm
Overall Depth:	420 mm
Weight:	8.5 kg
Mount Type:	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/VRRP 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 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, extended line card
Scope of delivery:	Device, console cable, installation package, "*Power cord does not included in the package

History

Update and Revision:	Revision Number: 0.36 Revision Date: 10-13-2026

© 2026 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.