HIRSCHMANN IT
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Product: MTS2748-6X-MP-E

MAMMUTHUS Layer3 Gigabit Ethernet Switch with PoE/PoE+



Product Description

1U rack mount, 48 × FE/GE POE/POE+, 4 × 1/10G SFP+ slots, redundant PSU, enhanced software

Technical Specifications

Product description

Type:	MTS2748-6X-MP-E
Name:	MTS2748-6X-MP-E
Description:	1U rack mount, 48 × FE/GE POE/POE+, 4 × 1/10G SFP+ slots, redundant PSU, enhanced software
Part Number:	942999831
Port Type and Quantity:	48 × FE/GE POE/POE+, 4 × 1/10G SFP+ slots, 1 × RJ45 Console port, 1 × USB 2.0, no Reset Button, extendible with one extended slot for media module with 2 × 1/10G SFP+ interfaces
Heat Radiation Type:	Fixed fan

More Interfaces

Power Supply:	2 × modular redundant PSUs, hot swappable

Power requirements

PoE Budget:	According to the PSU module used: 380W (if apply 1 × PSU500); 760W (if apply 2 × PSU500); 760W (if apply 1 × PSU880); 1520W (if apply 2 × PSU880); PSU120 has no PoE output power
Operating Voltage:	100-240VAC 50-60Hz, redundancy PSU supported
Applicable PSU modules:	MTM2700-PSU120, MTM2700-PSU500, MTM2700-PSU880
Power Consumption:	Device non-PoE power consumption:46W, Max. PoE power consumption:1440W

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:	7.8 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
PoE	Function	802.3af; 802.3at; priority; preemptive function; automatic fault monitoring

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
UL/cUL:	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: 0.96 Revision Date: 10-13-2026

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