


Product Information MAMMUTHUS Layer3 Gigabit Ethernet Switch - MTS2848-6X-S

Managed Enterprise Ethernet MTS2800 series switches: MAMMUTHUS Layer3 Gigabit Ethernet Switch		
Name	MAMMUTHUS Layer3 Gigabit Ethernet Switch	
		
	1U rack mount, 48 × FE/GE TX, 6 × 1/10G SFP+ slots, fixed redundancy power supply, standard software	
Delivery information		
Availability	Available	
Product description		
Description	1U rack mount, 48 × FE/GE TX, 6 × 1/10G SFP+ slots, fixed redundancy power supply, standard software	
Port type and quantity	48 × FE/GE TX, 6 × 1/10G SFP+ slots, 1 × RJ45 Console port, 1 × USB 2.0, no Reset Button	
Power supply	2 × Fixed redundant PSUs	
Heat radiation	Fixed fan	
Type	MTS2848-6X-S	
Order No.	942999843	
Mechanical construction		
Dimensions (W×D×H)	442mm × 320mm × 44.2mm	
Weight	5.8kg	
Mounting	Rack mount	
Power requirement		
Operating voltage	100-240VAC, 50-60HZ or 200-240VDC, redundancy PSU supported	
Power consumption	55W	
Ambient conditions		
Operating temperature	-10°C...55°C	
Storage/transport temperature	-40°C...70°C	
Relative humidity(non-condensing)	10%...90%	
Storage/transport humidity(non-condensing)	5%...95%	
Software		
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	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
	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
IPV6	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

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	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
Mechanical stability		
	IEC 60068-2-27 shock	15g, 11ms duration, 18 shocks
	IEC 60068-2-6 vibration	1mm, 2Hz-13.2Hz, 90min.; 0.7g, 13.2Hz-100Hz, 90min.; 3.5mm, 3Hz-9Hz, 10 cycles, 1octave/min.; 1g, 9Hz-150Hz, 10 cycles, 1octave/min
EMC interference immunity		
	EN 61000-4-2 electrostatic discharge (ESD)	4kV contact discharge, 8kV air discharge
	EN 61000-4-3 electromagnetic field	10V/m (80-1000MHz), 3V/m (1000-6000MHz)
	EN 61000-4-4 fast transients (burst)	2kV power line, 1kV data line
	EN 61000-4-5 surge voltage	power line: 2kV (line/earth), 1kV (line/line), 1kV data line
	EN 61000-4-6 conducted immunity	10V (150kHz-80MHz)
	EN 61000-4-8 power frequency magnetic field	30A/m
	EN 61000-4-11 voltage dips, short interruption	0%(20ms), 40%(300ms), 70%(500ms), 0%(5s)
EMC emitted immunity		
	FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
	EN 55032	EN 55032 Class A
	EN 61000-3-2	EN 61000-3-2 Class A
	EN 61000-3-3	EN 61000-3-3
Approvals		
	CE / FCC	Compliant
	China Network Access Certificate	Compliant
	CCC approval	Compliant
	RoHS compliance	RoHS((EU) 2015/863) and RoHS(GB/T26572-2011) compliant
Scope of delivery and accessories		
	Scope of delivery	Device, console cable, installation package
	Accessories to order separately	Network Management Industrial HiVision, SFP

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