


## Product Information MAMMUTHUS Layer3 Gigabit Ethernet Switch - MTS2848-6X-E

Managed Enterprise Ethernet MTS2800 series switches: MAMMUTHUS Layer3 Gigabit Ethernet Switch		
<b>Name</b>		MAMMUTHUS Layer3 Gigabit Ethernet Switch
		
		1U rack mount, 48 × FE/GE TX, 6 × 1/10G SFP+ slots, fixed redundancy power supply, enhanced software
<b>Delivery information</b>		
<b>Availability</b>		Available
<b>Product description</b>		
<b>Description</b>		1U rack mount, 48 × FE/GE TX, 6 × 1/10G SFP+ slots, fixed redundancy power supply, enhanced software
<b>Port type and quantity</b>		48 × FE/GE TX, 6 × 1/10G SFP+ slots, 1 × RJ45 Console port, 1 × USB 2.0, no Reset Button
<b>Power supply</b>		2 × Fixed redundant PSUs
<b>Heat radiation</b>		Fixed fan
<b>Type</b>		MTS2848-6X-E
<b>Order No.</b>		94299841
<b>Mechanical construction</b>		
<b>Dimensions (W×D×H)</b>		442mm × 320mm × 44.2mm
<b>Weight</b>		5.8kg
<b>Mounting</b>		Rack mount
<b>Power requirement</b>		
<b>Operating voltage</b>		100-240VAC, 50-60HZ or 200-240VDC, redundancy PSU supported
<b>Power consumption</b>		55W
<b>Ambient conditions</b>		
<b>Operating temperature</b>		-10°C...55°C
<b>Storage/transport temperature</b>		-40°C...70°C
<b>Relative humidity(non-condensing)</b>		10%...90%
<b>Storage/transport humidity(non-condensing)</b>		5%...95%
<b>Software</b>		
<b>Data link layer protocol and technology</b>	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
<b>Security</b>	<b>Security features</b>	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
	<b>Attack protection</b>	URPF; LAND attack; SYN Flood attack; Smurf attack; Ping Flood attack; TearDrop attack; Ping of Death attack
<b>Network protocol</b>	<b>Routing protocol</b>	Static router; RIP v1/v2; OSPF; BGP; ISIS; RIPng; OSPFv3; BGP4; ISISv6
	<b>Multicast protocol</b>	IGMP PROXY; IGMP filter; MLD v1/v2; IGMP Snooping; MLD v1/v2 Snooping
		PIM-DM; PIM-SM; PIM-SDM; PIM-SSM
	<b>IP application</b>	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
<b>IPv6</b>	IPv6 basic function: IPv6 ND, IPv6 PMTU, IPv6 ACL, DS-Lite, IPv4/v6 Dual Stack	
<b>IPv6 Tunneling</b>	IPv6 manual tunnel; GRE tunnel; Ipv4/Ipv6 compatible automatic tunnel. 6to4 tunnel. ISATAP tunnel	
<b>QoS</b>	<b>Traffic classification</b>	Based on port/MAC address/IP address/IP priority/DSCP priority/TCP or UDP port number/ protocol type etc.

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Managed Enterprise Ethernet MTS2800 series switches: MAMMUTHUS Layer3 Gigabit Ethernet Switch		
	<b>Traffic policing</b>	CAR
	<b>Congestion management</b>	SP; WRR; SP+WRR
	<b>Congestion avoidance</b>	RED; WRED
<b>Virtualization</b>	<b>Virtualization technology</b>	Stacking, up to 8 devices
<b>Management</b>	<b>Network management</b>	Console port; HTTP; Telnet; SSH management; SNMP v1/v2/v3; RMON 1/2/3/9; SYSLOG; DDMI
	<b>Line management</b>	VCT; UDLD
	<b>Traffic analysis</b>	sFlow traffic analysis
<b>OAM</b>	<b>SLA</b>	Including network delay/network jitter/packet loss rate test
<b>Reliability</b>	<b>Link reliability</b>	BFD for OSPF/RRP etc.; Keepalive Gateway; VRRP/RRPv6; ERPS(G.8032) ring network protocol
<b>Data center feature</b>		VXLAN; EVPN; XML API/NETCONF
<b>Mechanical stability</b>		
	<b>IEC 60068-2-27 shock</b>	15g, 11ms duration, 18 shocks
	<b>IEC 60068-2-6 vibration</b>	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
<b>EMC interference immunity</b>		
	<b>EN 61000-4-2 electrostatic discharge (ESD)</b>	4kV contact discharge, 8kV air discharge
	<b>EN 61000-4-3 electromagnetic field</b>	10V/m (80-1000MHz), 3V/m (1000-6000MHz)
	<b>EN 61000-4-4 fast transients (burst)</b>	2kV power line, 1kV data line
	<b>EN 61000-4-5 surge voltage</b>	power line: 2kV (line/earth), 1kV (line/line), 1kV data line
	<b>EN 61000-4-6 conducted immunity</b>	10V (150kHz-80MHz)
	<b>EN 61000-4-8 power frequency magnetic field</b>	30A/m
	<b>EN 61000-4-11 voltage dips, short interruption</b>	0%(20ms), 40%(300ms), 70%(500ms), 0%(5s)
<b>EMC emitted immunity</b>		
	<b>FCC CFR47 Part 15</b>	FCC 47 CFR Part 15 Class A
	<b>EN 55032</b>	EN 55032 Class A
	<b>EN 61000-3-2</b>	EN 61000-3-2 Class A
	<b>EN 61000-3-3</b>	EN 61000-3-3
<b>Approvals</b>		
	<b>CE / FCC</b>	Compliant
	<b>China Network Access Certificate</b>	Compliant
	<b>CCC approval</b>	Compliant
	<b>RoHS compliance</b>	RoHS( (EU) 2015/863 ) and RoHS( GB/T26572-2011 ) compliant
<b>Scope of delivery and accessories</b>		
	<b>Scope of delivery</b>	Device, console cable, installation package
	<b>Accessories to order separately</b>	Network Management Industrial HiVision, SFP

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