


Product Information MAMMUTHUS Layer3 Gigabit Ethernet Switch with PoE/PoE+ MTS2748-6X-MP-E

Managed Enterprise Ethernet MTS2700 series switches: MAMMUTHUS Layer3 Gigabit Ethernet Switch with PoE/PoE+		
Name		MAMMUTHUS Layer3 Gigabit Ethernet Switch
		
		1U rack mount, 48 x FE/GE POE/POE+, 4 x 1/10G SFP+ slots, redundant PSU, enhanced software
Delivery information		
Availability		Available
Product description		
Description		1U rack mount, 48 x FE/GE POE/POE+, 4 x 1/10G SFP+ slots, redundant PSU, enhanced software
Port type and quantity		48 x FE/GE POE/POE+, 4 x 1/10G SFP+ slots, 1 x RJ45 Console port, 1 x USB 2.0, no Reset Button
PoE budget		380W (if apply 1 x PSU500); 760W (if apply 2 x PSU500)
Power supply		2 x modular redundant PSUs, hot swappable
Heat radiation		Fixed fan
Extended slot		1 x extended line card slot
Type		MTS2748-6X-MP-E
Order No.		942999831
Mechanical construction		
Dimensions (WxDxH)		442mm x 420mm x 44.2mm
Weight		7.8kg
Mounting		Rack mount
Power requirement		
Operating voltage		100-240VAC, 50-60HZ or 200-240VDC, redundancy PSU supported
Power consumption		46W
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
PoE	Function	802.3af; 802.3at; priority; preemptive function; automatic fault monitoring
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; BGP; ISIS; RIPng; OSPFv3; BGP4; ISISv6
	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	

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	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/RRP etc.; Keepalive Gateway; VRRP/VRRPv6; ERPS(G.8032) ring network protocol
Data center feature	VXLAN; EVPN; XML API/NETCONF
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, extended line card

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