


Product Information MAMMUTHUS Layer3 10Gigabit Ethernet Core Switch - MTS2948X-6Q-A

Managed Enterprise Ethernet MTS2900 series switch: MAMMUTHUS Layer3 10Gigabit Ethernet Core Switch		
Name		MAMMUTHUS Layer3 40Gigabit Ethernet Core Switch
		
		1U rack mount 10G Core Switch, 48 x 1/10G SFP+ slots, 6 x 40G QSFP+ slots, redundant PSU, advanced software
Delivery information		
Availability		Available
Product description		
Description		1U rack mount 10G Core Switch, 48 x 1/10G SFP+ slots, 6 x 40G QSFP+ slots, redundant PSU, advanced software
Port type and quantity		48 x 1/10G SFP+ slots, 6 x 40G QSFP+ slots, 1 x USB, 2 x RJ45 console port, 1 x FE/GE RJ45 out of band management port, 1 x Reset Button
Power supply		2 x modular redundant PSUs, hot swappable
Heat radiation		Modular fans
Type		MTS2948X-6Q-A
Order No.		942999824
Mechanical construction		
Dimensions (WxDxH)		440mm x 560mm x 44.2mm
Weight		12.4kg
Mounting		Rack mount
Power requirement		
Operating voltage		100-240VAC 50-60Hz or 240VDC, redundancy PSU supported
Power consumption		200W
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		
Ethernet feature	Port feature	Port isolation; UNI/NNI isolation; UMB storm-control; combo port self-adaption
	MAC address management	Sticky MAC learning; VLAN and global MAC address; static MAC; MAC address removal alert
	VLAN	Support 4K VLAN; VLAN based on port/MAC/IP/protocol port number; VLAN Mapping N:1; PVLAN; Super-VLAN; GVRP
	QinQ	Q-in-Q and flexible Q-in-Q
	Redundancy	STP/MSTP/RSTP; BPDU Guard; Root Guard; Flap Guard; Loop Guard; portfast test; BPDU message encryption; VIST; LBD; EIPS
	Port mirroring	N:1 port mirroring; data flow mirroring; RSPAN; ERSPAN; VLAN mirroring;
Router feature	Link aggregation	Dynamic link aggregation; static link aggregation; cross board/devices link aggregation; flow-based load balance
	IPv4 protocol	TCP; UDP; Ping; TraceRoute; Telnet; FTP; TFTP; ICMPv4; DNS; UDP Helper; DHCP; DHCP server; DHCP Delay; DHCP Snooping; NTP; SNTP; support ARP and ARP Proxy
	IPv6 protocol	IPv4/IPv6 dual stack; TCP6; UDP6; RawIP6; Ping v6; TraceRoute6; Telnet6; FTPv6; TFTPv6; DNSv6; ICMPv6; VRRPv3; DHCPv6; ND; PMTUD
	IPv4 router protocol	Static route; RIPv1/v2; RIP; OSPF; IS-IS; BGP; GRE; IP/IP tunnel;
Multicast	IPv6 router protocol	IPv6 static route; RIPng; OSPFv3; IS-ISv6; BGPv4+; IPV6 transition tunnel; GREv6
	Layer2 multicast	IGMPv1/v2/v3 Snooping; multicast VLAN; support MLD v1/v2 Snooping
MPLS	Layer3 multicast	IGMPv1/v2/v3; MLD v1/v2; multicast static router; IPv4 intra-domain multicast router; IPv4 inter-domain multicast router; IPv4 multicast management; support MSDP/PIM-SM/PIM-DM/PIM-SSM/PIM-SDM; IPv6 intra-domain multicast router; IPv6 inter-domain multicast router; IPv6 multicast management; IPv6 multicast forwarding; MSDP for IPv6; support PIM-SMv6 and PIM-SSMv6
	MPLS	LDP; MPLS L3VPN; MPLS QoS
ACL/QOS	ACL	IPv4/IPv6 standard ACL; IPv4/IPv6 extended ACL; mixed ACL; MAC ACL; ACL based on port; ACL based on layer3 interface; ACL based on VLAN; global ACL; Ingress/Egress ACL; ACL matching log; time-based ACL

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	QOS	Scheduling; 802.1p and DSCP priority mapping; traffic classification; traffic policing; traffic shaping; congestion management; congestion avoidance; speed limitation based on time domain; traffic policing based on time domain
Security function	Network security	Message validity test; URPF; ACL; port isolation; DHCP Snooping; DHCPv6 Snooping; IPSG; IPSGv6; AARF; Dynamic ARP Inspection; ARP Check; Host Guard; BPDU message encryption
	Management security	AAA; SSH v1/v2; USB-Key; log/configuration encryption; password strength check; login protection
	Access security	Portal certification; 802.1X certification; MAC certification; port security
Data center feature	VXLAN	VXLAN cross data center interconnection; VTEP; EVPN
	TRILL	TRILL transparent exchange network
	SDN	OpenFlow1.1/1.2/1.3; XML API/NETCONF
Device maintenance	Device management method	Console; Telnet; SSH v1/v2
	File management	FTP/TFTP upload/download files; formatting files; creating catalog; file management
	Network maintenance	Ping; TraceRoute; LSP Ping/Tracert function; interface loop monitoring
	Network management	SNMP v1/v2/v3; RMON; SSH v1/v2; IPFIX/SFLOW; support TR069
Reliability	OAM function	802.3ah OAM; 802.1ag OAM; ITU Y.1731 OAM
	Device reliability	Support PSU hot-plugging and fan module hot-plugging; support IOS backup and recovery; support configuration file backup and recovery
	Network reliability	VRRP; VBRP; VRRPv3; BFDv6; BFD for VRRP/BGP/IS-IS/RIP/OSPF/static router; support VRRP and TRILL linkage; ULFD; ULPP; Monitor Link
Stacking		Stackable, up to 8 devices in one stack
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, PSU module, fan module*

*A MTS2948X-6Q-A switch must have four fan modules to make it work properly.

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