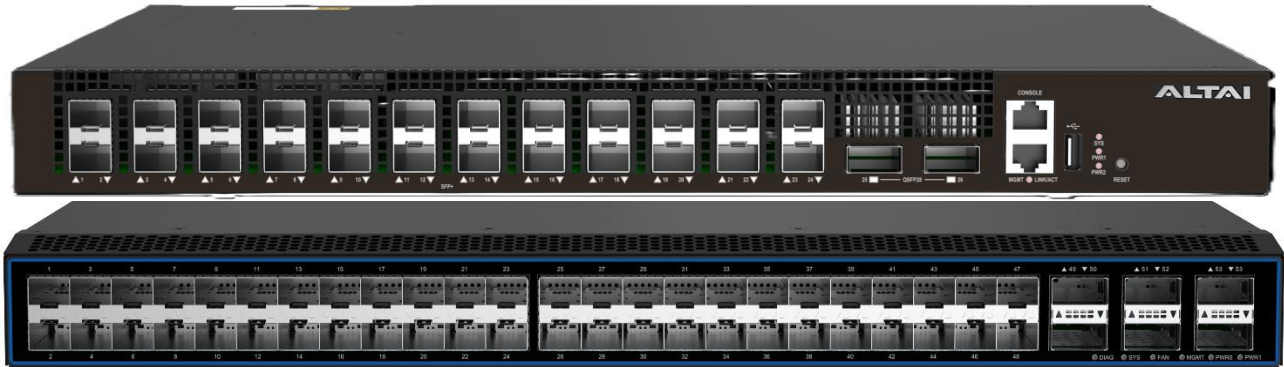




SFP+,
QSFP28
Support



* Compatible with
AltaiGate/AltaiCare On-Premises

The MES6000 series is a high-performance aggregation 10G campus switch engineered for modern enterprise and education networks that require reliable, flexible, and scalable connectivity. Designed with a high-performance chip architecture, the switch delivers 10G SFP+ ports and 100G QSFP28 uplinks, providing a powerful combination of high-density access and ultra-high-speed aggregation. With up to 4Tbps switching capacity and 1010Mpps forwarding rate, the MES6000 series ensures non-blocking transmission for bandwidth-intensive applications such as high-density Wi-Fi, video surveillance, and data-rich collaboration environments.

The platform integrates comprehensive Layer 2 and Layer 3 features, including VLAN, static and dynamic routing, OSPFv2/v3, BGP. This allows the switch to function not only as a high-capacity aggregation switch but also as a compact core switch. Advanced reliability technologies—ERPS, STP/RSTP/MSTP, MLAG, SmartLink, and MonitorLink—ensure rapid recovery and uninterrupted service in mission-critical deployments.

Security capabilities such as 802.1X, MAC authentication, RADIUS, uRPF, and DoS protection help safeguard network integrity, while multiple management interfaces (CLI, SSH, Web, SNMP) simplify operations.

Compact 1U dimensions and 1+1 redundant hot swappable power supply support make the MES6000 series an ideal fit for agile, scalable campus networks needing 10G performance and 100G uplink readiness.

* Features to be available

Hardware Specifications

Model	MES6300-48XS6H	MES6500-24XS2H	MES6500-48Y8H
Service Ports	48 x 1/10 G SFP+ Ports 6 x 100G QSFP28 Slots	24 x 1/10 G SFP+ Ports 2 x 100G QSFP28 Slots	48 x 25G SFP28 Slots 8 x 100G QSFP28 Slots
Management Port	1 x RJ45	1 x RJ45	1 x RJ45
Console Port	1 x RJ45	1 x RJ45	1 x RJ45
USB Port	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
Installation	19" Rack Mount	19" Rack Mount	19" Rack Mount
Dimensions	440 (W) x 380 (L) x 44 (H) mm	440 (W) x 360 (L) x 44 (H) mm	440 (W) x 400 (L) x 44 (H) mm
Input Power	AC 100-240V 50/60 Hz	AC 100-240V 50/60 Hz	AC 100-240V 50/60 Hz
Power Supply	1+1 Redundant Power Supply	1+1 Redundant Power Supply	1+1 Redundant Power Supply
Fan module	4 x Removal fan modules	4 x Built-in non-removable fans	4 x Removable Fan Modules
Max. Power Consumption	≤ 230W	≤ 90W	≤ 200W

Performance Specifications

Model	MES6300-48XS6H	MES6500-24XS2H	MES6500-48Y8H
Architecture	Store-and-Forward	Store-and-Forward	Store-and-Forward
Switching Capacity	2160 Gbps	880 Gbps	4 Tbps
Packet Forwarding Rate	600 Mpps	300 Mpps	1010 Mpps
CPU	Dual core 1.4GHz	Quad Core 2.2GHz	Quad Core 2.2GHz
DRAM	2GB	2GB	4GB
Flash	128MB	2GB	2GB
MAC Address Table	32KB	128KB	160KB
Buffer Memory	48MB	36MB	288MB
Jumbo Frame	10KB	9.6KB	9.6KB

Software Features

Model		MES6300-48XS6H	MES6500-24XS2H MES6500-48Y8H
Port	• IEEE 802.3x flow control • Storm suppression based on packet type (Broadcast/Multicast/Unicast) • Port auto-negotiation • Port speed and duplex mode configuration • MDI/MDI-X crossover • Link-delay • MTU configuration • Admin-down • Port isolation • Port rate limiting • IEEE 802.3az EEE (Energy Efficient Ethernet)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
VLAN (Virtual Local Area Network)	• 4K VLANs • Access, Trunk, Hybrid VLAN • Protocol-based VLAN • IP Subnet-based VLAN • MAC-based VLAN • Guest and Private VLAN • Q-in-Q • VLAN mapping • Generic VLAN Registration Protocol (GVRP) and Multiple VLAN Registration Protocol (MVRP)	✓ ✓ ✓ ✓ ✓ ✓ ✓ - X ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
MAC Address Table	• MAC address learning and aging • Static MAC address • Blackhole MAC address	✓ ✓ ✓	✓ ✓ ✓
Link Aggregation	• IEEE 802.3ad LACP (Link Aggregation Control Protocol) • MLAG (Multi-chassis Link Aggregation)	✓ ✓	✓ ✓
DHCP (Dynamic Host Configuration Protocol)	• IPv4/IPv6 DHCP Client/Snooping/Relay/Server • Option 82	✓ ✓	✓ ✓
ARP (Address Resolution Protocol)	• Static/dynamic ARP • Gratuitous ARP • ARP Proxy	✓ ✓ ✓	✓ ✓ ✓
IPv6	• ND (Neighbour Discovery) • PMTUD (Path MTU Discovery) • IPv6-Ping, IPv6-Tracert, IPv6-Telnet, IPv6-TFTP	✓ ✓ ✓	✓ ✓ ✓
Routing Protocols	• IPv4/IPv6 static routing • ECMP (Equal-Cost Multi-Path) • PBR (Policy-based routing) • OSPFv2/v3 (Open Shortest Path First) • RIP (Routing Information Protocol)/RIPng (RIP Next Generation) BGP4/BGP4+ (Border Gateway Protocol) • IS-IS/IS-IS for IPv6 (Intermediate System-to-Intermediate System)	✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓
Multicast Protocols	• IGMP (Internet Group Management Protocol)/MLD (Multicast Listener Discovery) Snooping (fast-leave/group-policy/drop-unknown)	✓	✓

MES6000 Series

Aggregation/Core High-Performance Enterprise 10GE Switch



	• Multicast VLAN with SVGL (Shared VLAN Group Learning) • IPv4/IPv6 Protocol Independent Multicast Sparse mode (PIM-SM) • IPv4/IPv6 Bootstrap Router (BSR) • IGMP v1/v2	✓	✓
Loop Protection	• STP (Spanning Tree Protocol)/RSTP (Rapid STP)/MSTP (Multiple STP) • Root Guard • BPDU Guard, TC (Topology Change) protection • Loop detection • ERPS (Ethernet Ring Protection Switching)	✓	✓
Redundancy	• SmartLink • MonitorLink • VRRP (Virtual Router Redundancy Protocol)	✓	✓
QoS (Quality of Service)	• Diff-Serv QoS • 802.1p and DSCP priority marking	✓	✓
ACL (Access Control List)	• L2/L3/L4 ACL • IPv4/IPv6 ACL • Ingress ACL • Custom ACL	✓	✓
Port Mirroring	• Port mirroring • Remote mirroring	✓	✓
Security	• User privilege level/password • 802.1X authentication • MAC authentication • RADIUS/Local authentication • Serial port login • Whitelist • SSH 2.0 • IP Source Guard • DoS protection • uRPF (Unicast Reverse-Path Forwarding)	✓	✓
Management and Maintenance	• IEEE 802.1AB LLDP • FTP/TFTP upgrades • Command Line Interface (Console/Telnet/SSH) • Web (HTTPS) • SNMP V1/V2/V3 • RMON (Remote Monitoring) Groups 1/2/3/9 • Logs/traps • NTP/SNTP • Ping/Tracert • Power, fan, temp alerts	✓	✓

Environment Specifications

Model	MES6300-48XS6H, MES6500-24XS2H, MES6500-48Y8H
Operating Temperature	-5 ~ +45 °C
Storage Temperature	-40 ~ +70 °C
Operating & Storage Humidity	5 to 95% (Non-Condensing)

Certifications and Warranty

Model	All Models
Certifications	* CE * FCC - RoHS

Warranty

3-Year Limited Hardware Warranty

* To be available in future

Product Ordering Information

Standard Package

Part No.: SD.ES6300-48XS6H-000	- Model: MES6300-48XS6H 48-Port 10G SFP+ and 6-Port 100G QSFP28 managed Layer 3 Switch 1+1 Redundant Power Supply 4 x Fan modules - AC Power Cord
Part No.: SD.ES6500-24XS2H-000	- Model: MES6500-24XS2H 24-Port 10G SFP+ and 2-Port 100G QSFP28 managed Layer 3 Switch 1+1 Redundant Power Supply - AC Power Cord
Part No.: SD.ES6500-48Y8H-000	- Model: MES6500-48Y8H 48-Port SFP28 and 8-Port 100G QSFP28 managed Layer 3 Switch 1+1 Redundant Power Supply - AC Power Cord

Contact Us

- Email: sales@altaitechnologies.com or visit us at www.altaittechnologies.com

DS-MES6000-260417-V1.0

The information contained herein is subject to change without prior notice.