



802.3af/at
Compliant



1 Gigabit
Ethernet Speed



SFP
Support



* Compatible with
AltaiGate/AltaiCare On-Premises

The MES2100 series is layer 2 Gigabit managed PoE switch family for modern campus and enterprise access networks. Combining full-Gigabit downlink interfaces with 1G uplinks, it delivers the bandwidth and scalability required for dense deployments such as medium-sized campuses, factories, and multi-building enterprises.

MES2100 series supporting rich communication protocols including: 802.1Q VLAN and 802.3x flow control, STP/RSTP/MSTP, ERPS ring protection, storm suppression (broadcast/ multicast/ unknown unicast), as well as IGMP/MLD-snooping for Layer 2 multicast control. MES2100 series offers full Gigabit access ports, PoE+ support up to 30W per port, and comprehensive software features ensuring stable, reliable networks.

MES2100 series powering wireless APs and IP cameras for surveillance. Ideal for small/medium enterprises, hotels, schools, and hospitals, they handle wired/wireless access and monitoring with resilient ring topologies and robust QoS/ACL policies for industrial-grade reliability.

MES2100 excels in small office wired/wireless access and IP surveillance (PoE for APs/cameras) across enterprises and factories, providing robust switching with resilient ring topologies and multicast optimization for industrial reliability.

* To be available in the future.

Hardware Specifications

Model	MES2100-8G2S-POE	MES2100-24G4S-POE
Copper Ports	8 x 10/100/1000 Mbps RJ45 Ports	24 x 10/100/1000 Mbps RJ45 Ports
SFP Slots	2 x 1 Gbps SFP Uplink Ports	4 x 1 Gbps SFP Uplink Ports
Management Port	–	–
Console Port	1 x RJ45 Port	1 x RJ45 Port
USB Port	–	–
Surge Protection	4kV	4kV
Installation	Desktop	19" Rack Mount
Dimensions	270 (L) x 181 (W) x 44 (H) mm / 320 (L) x 208 (W) x 44 (H) mm	440 (L) x 170 (W) x 44 (H) mm / 440 (L) x 260 (W) x 44 (H) mm
Input Power	Single Power Supply: 100-240 ACV, 50-60 Hz	Single Power Supply: 100-240 ACV, 50-60 Hz
Power Consumption	≤ 20W	≤ 25W

Performance Specifications

Model	MES2100-8G2S-POE	MES2100-24G4S-POE
Architecture	Store-and-Forward	Store-and-Forward
Switching Capacity	20 Gbps	56 Gbps
Packet Forwarding Rate	14.8 Mpps	41.6 Mpps
CPU	Single Core 500 MHz	Single Core 500 MHz
DRAM	128 MB	128 MB
Flash	32 MB	32 MB
MAC Address Table	8K	8K
Buffer Memory	4 MB	4 MB
Jumbo Frame	10 KB	10 KB

Power Over Ethernet

Model	MES2100-8G2S-POE	MES2100-24G4S-POE
PoE Standards	IEEE 802.3af/at	IEEE 802.3af/at
PoE Ports	Port 1 to 8	Port 1 to 24
Power Pin Assignment	1/2(-), 3/6(+)	1/2(-), 3/6(+)
Max Power Per Port	30 W	30 W
Total Power Budget	120 W	360 W

Networking and Software Features

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 • Q-in-Q
MAC Address Table	• MAC address learning and aging • Static MAC address • Blackhole MAC address
Link Aggregation	• Static aggregation • IEEE 802.3ad LACP (Link Aggregation Control Protocol)
DHCP (Dynamic Host Configuration Protocol)	• IPv4 DHCP Client/Snooping • Option82
ARP (Address Resolution Protocol)	• Static/dynamic ARP
Multicast Protocols	• IGMP (Internet Group Management Protocol Snooping) • Multicast VLAN with SVGL (Shared VLAN Group Learning)
Loop Protection	• STP (Spanning Tree Protocol)/ RSTP (Rapid STP)/ MSTP (Multiple STP) • BPDU, TC (Topology Change) protection • Loop detection • ERPS (Ethernet Ring Protection Switching)
QoS (Quality of Service)	• Diff-Serv QoS • 802.1p and DSCP priority marking
ACL (Access Control List)	• L2/L3/L4 ACL • IPv4 ACL • Ingress ACL
Port Mirroring	• Port mirroring • Remote mirroring
Security	• User privilege/password • 802.1X authentication • MAC authentication • RADIUS/local authentication

	- Whitelist - SSH 2.0 - IP Source Guard
	DoS protection
Management and Maintenance	- FTP/TFTP upgrades - Command Line Interface (Console/Telnet/SSH) - Web (HTTPS) - SNMP V1/V2/V3 - RMON (Remote Monitoring) 1/2/3/9 - Logs/traps - NTP/SNTP - Ping/Tracert

Environment Specifications

Model	All Models
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	5-Year Limited Hardware Warranty

* To be available in the future.

Product Ordering Information	
Standard Package	
Part No.: SD.ES2100-8G2SP-000	- Model: MES2100-8G2S-POE 8-Port 1GbE and 2-Port SFP managed Layer 2 PoE Switch - AC Power Cord
Part No.: SD.ES2100-24G4SP-000	- Model: MES2100-24G4S-POE 24-Port 1GbE and 4-Port SFP managed Layer 2 PoE Switch - AC Power Cord
Contact Us	
Email: sales@altaitechnologies.com or www.altaittechnologies.com	

DS-MES2100-260721V1.4

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