DATASHEET

LS2P-8MG2XS-P • LS2P-16MG4XS-HP



Product Overview

The LS2P Series is enterprise-class Layer 2+ managed 2.5G PoE access switches designed for high-performance wireless coverage scenarios in offices, hotels, warehouses, retail stores, campuses, and other similar environments. The series offers 8/16-port 2.5G access, PoE/PoE++ power delivery, and 10G SFP+ fiber uplinks, making it suitable for connecting Wi-Fi 6/7 APs and other high-bandwidth devices.

With 2.5G high-performance access, 10G high-speed uplinks, enterprise-class Layer 2 and Layer 3 static routing capabilities, security policies, PoE operations, and cloud-based remote management, the LS2P Series helps enterprises build high-bandwidth, secure, reliable, easy-to-manage, scalable, and professional access-layer networks.

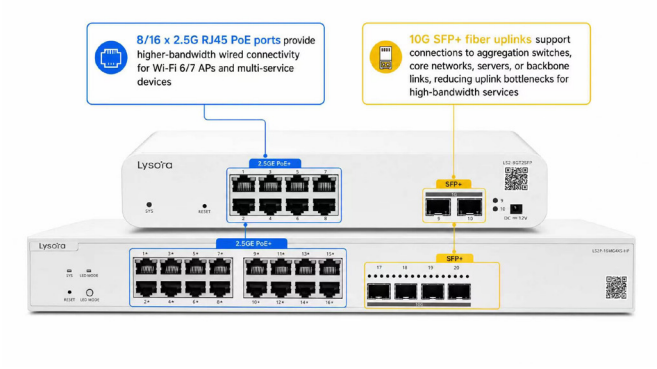
Features

- Enterprise-Class Access Capabilities
- Enterprise-Class Layer 2+ Features
- Multiple Security Policies
- Multiple Management Methods
- Multiple Troubleshooting Methods
- Energy Efficiency and Reliability Design

	Total Ports	PoE+ Ports	PoE++ Ports	PoE Budget	SFP+ Ports
LS2P-8MG2XS-P	10	8	0	240 W	2
LS2P-16MG4XS-HP	20	12	4	370 W	4

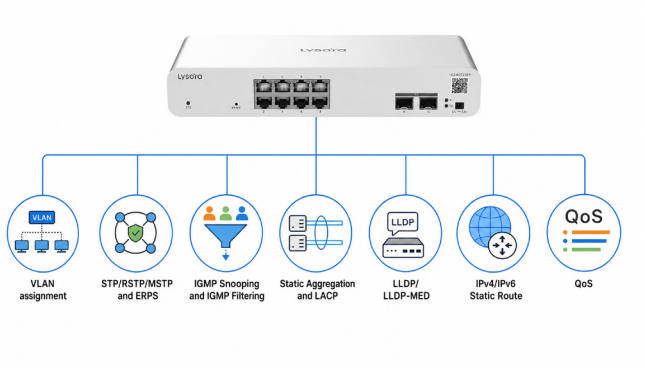
Enterprise-Class Access Capabilities

The LS2P Series provides flexible model options for high-bandwidth access scenarios, covering needs from mid-sized high-performance access to higher-density Powered Device (PD) deployments.
8/16 x 2.5G RJ45 PoE ports provide higher-bandwidth wired connectivity for Wi-Fi 6/7 APs and multi-service devices.
10G SFP+ fiber uplinks support connections to aggregation switches, core networks, servers, or backbone links, reducing uplink bottlenecks for high-bandwidth services.



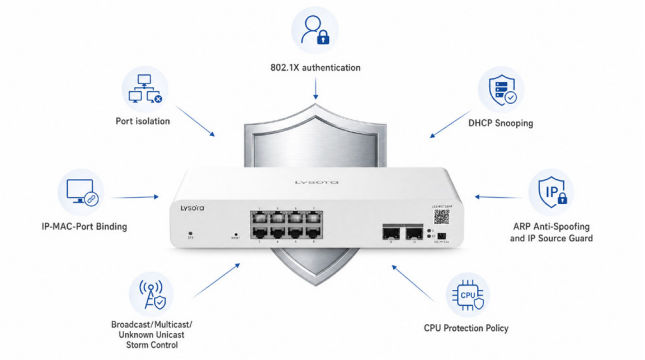
Enterprise-Class Layer 2+ Features

The LS2P Series offers rich Layer 2+ networking capabilities for traffic segmentation, link redundancy, multicast optimization, static routing, and access-layer performance control.
VLAN assignment logically separates office, guest, surveillance, voice, and wireless traffic to improve network security and simplify network management.
STP/RSTP/MSTP and ERPS provide loop prevention and link redundancy, improving network availability in ring or redundant topologies.
IGMP Snooping and IGMP Filtering optimize multicast forwarding by sending multicast traffic only to ports that request it, making them suitable for video surveillance and multicast services.
Static Aggregation and LACP combine multiple physical links into higher-bandwidth logical links, reducing uplink bottlenecks and improving link reliability.
LLDP/LLDP-MED discovers and advertises neighboring device information, improving topology visibility, device identification, and network operations.
IPv4/IPv6 Static Route provides basic Layer 3 static routing capability for lightweight inter-subnet access and routing needs.
QoS prioritizes voice, video, and critical service traffic based on 802.1p and DSCP priority markings.



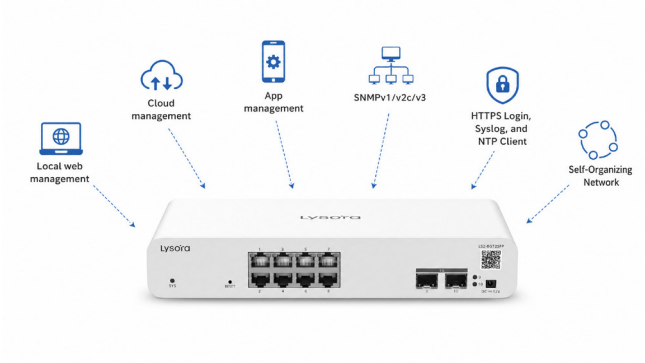
Multiple Security Policies

The LS2P Series provides access-layer security capabilities to help prevent unauthorized access, address spoofing, abnormal traffic, and loop-related risks.
802.1X authentication supports port-based or MAC-based access authentication to strengthen client access control.
Port isolation restricts communication between selected access ports to protect users or clients connected to the same switch.
DHCP Snooping helps defend against unauthorized DHCP servers and improves control over IP address assignments.
IP-MAC-Port Binding binds client IP addresses, MAC addresses, and ports to reduce address spoofing and unauthorized access risks.
ARP Anti-Spoofing and IP Source Guard enhance anti-spoofing capabilities at the access layer, helping ensure stable operation of critical service networks.
Broadcast/Multicast/Unknown Unicast Storm Control suppresses abnormal flooding traffic and prevents broadcast storms from degrading overall network performance.
CPU Protection Policy protects switch control-plane resources from abnormal or excessive traffic.



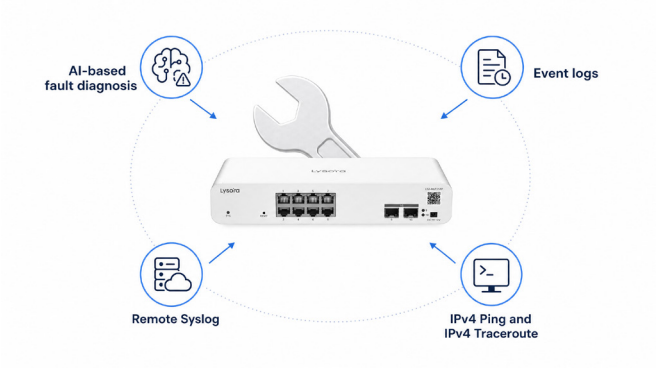
Multiple Management Methods

The LS2P Series supports both local and remote management methods, making it suitable for single-site, multi-site, and third-party monitoring platform scenarios.
Cloud management enables remote monitoring and centralized operations, suitable for multi-store, multi-floor, and multi-area deployments.
App management allows administrators to quickly check status, manage devices, and perform basic operations from mobile clients.
Local web management supports on-site configuration, standalone deployment, and localized management requirements.
SNMPv1/v2c/v3 enable integration with third-party network management platforms for device discovery, status monitoring, and unified operations.
HTTPS Login, Syslog, and NTP Client improve management security, logging capability, and system time consistency.
Self-Organizing Network supports automatic device discovery and unified onboarding, simplifying multi-device project deployment.



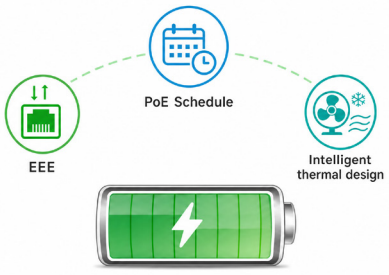
Multiple Troubleshooting Methods

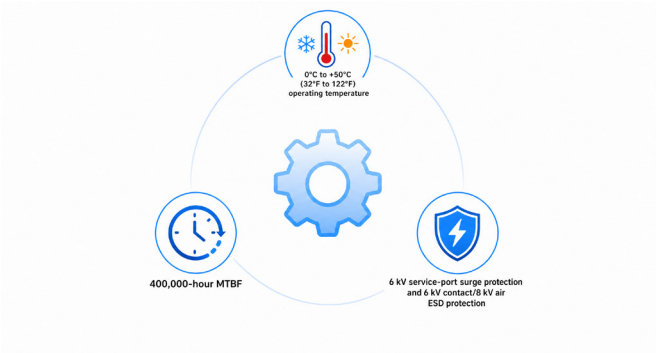
The LS2P Series offers practical diagnostic tools to help administrators identify connectivity, configuration, and event-related issues more quickly.
AI-based fault diagnosis helps identify common network issues and improves troubleshooting efficiency.
Event logs provide detailed records for issue analysis and historical review.
Remote Syslog can send system events to an external log server for centralized monitoring and long-term retention.
IPv4 Ping and IPv4 Traceroute help verify connectivity and locate path-related network issues.



Energy Efficiency and Reliability Design

The LS2P Series balances high-performance access with thermal design, power efficiency, and long-term operational reliability.
Energy Efficient Ethernet (EEE) helps save energy during periods of low data activity on Ethernet links.
PoE Schedule enables scheduled control of PoE power delivery, reducing power usage outside business hours.
Intelligent thermal design uses fixed fans and optimized airflow to maintain stable operation under high-load PoE scenarios.
0°C to +50°C (32°F to 122°F) operating temperature supports deployment in offices, equipment rooms, racks, warehouses, and other environments.
400,000-hour MTBF ensures long-term continuous operation in enterprise networks.
6 kV service-port surge protection and 6 kV contact/8 kV air ESD protection improve interference resistance and reliability in complex cabling environments.





Specifications

Hardware		
Dimensions	300 mm x 233 mm x 43.6 mm (11.81 in. x 9.17 in. x 1.72 in.)	
Weight	3.45 kg (7.61 lbs) (with packaging materials) 2.64 kg (5.82 lbs) (without packaging materials)	
Port Specifications	Total number of RJ45 ports	8
	Total number of optical ports	2
	Number of 10GE SFP+ ports	2
	Number of 10/100/1000/2500BASE-T ports	8
PoE Specifications	Number of PoE/PoE+ Out ports	8
	PoE budget	240 W
	PoE power pins	1–2 (+), 3–6 (-)
Enclosure Material	Metal	
Mounting Options	Rack/Desk	
Warranty	3 years	
System Specifications	Switching capacity	80 Gbps (bit/s)
	Forwarding rate	59.52 Mpps
	Buffer size	12 Mbit
	CPU	Single-core processor, 800 MHz clock frequency
	RAM	512 MB
	Flash memory	256 MB
Capacity Specification	Maximum number of VLANs	4094
	Maximum number of MAC address entries	16000
	Maximum number of ARP entries	1000
	IPv4 routing table size (host route)	6000
	Maximum number of IPv4 static routes	64
	Maximum number of IPv6 static routes	64
	IPv4 routing table size (network route)	512
	IPv6 routing table size (network route)	128
System Performance Capacity	Recommended camera limit	200 W H265: 300 400 W H265: 150
Power Supply and Consumption	Power input	220 V AC power supply: Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz Maximum input current: 4.5 A
	Max. power consumption	27 W (with no PoE load) 278 W (with full PoE load)
	Heat dissipation	No PoE load: 92.34 BTU/hr (90 V/50 Hz) Full PoE load: 950.76 BTU/hr (90 V/50 Hz)







Specifications

Environment and Reliability	Surge protection	Service port: ±6 kV for common mode Power connector: ±6 kV for both common mode and differential mode
	Operating temperature	0°C to +50°C (32°F to 122°F)
	Storage temperature	–40°C to +70°C (–40°F to +158°F)
	Operating humidity	10% RH to 90% RH (non-condensing)
	Storage humidity	5% RH to 95% RH (non-condensing)
	Fan	2 x fixed fans
	Cooling	Air cooling, left-to-right airflow
	Altitude	Operating altitude: –500 m to +5,000 m (–1,640.42 ft. to +16,404.20 ft.) Storage altitude: –500 m to +5,000 m (–1,640.42 ft. to +16,404.20 ft.)
	MTBF	400,000 hours
	ESD protection	Contact discharge: 6 kV Air discharge: 8 kV
Package Contents		
Device	Device	1
Manual	User Manual	1
	Warranty Card	1
Accessories	Rubber pad	4
	Power cord retention clip	1
	Screw	8 M3 x 6 mm cross recessed countersunk head screws
	Grounding cable	1 x 1 m (3.28 ft.)
	Power cord	1 x 1.8 m (5.91 ft.)
	Rack-mount bracket	2







Specifications

Hardware		
Dimensions	440 mm x 267.5 mm x 43.6 mm (17.32 in. x 10.53 in. x 1.72 in.)	
Weight	5.24 kg (11.55 lbs) (with packaging materials) 3.6 kg (7.94 lbs) (without packaging materials)	
Port Specifications	Total number of RJ45 ports	16
	Total number of optical ports	4
	Number of 10GE SFP+ ports	4
	Number of 10/100/1000/2500BASE-T ports	16
PoE Specifications	Number of PoE/PoE+ Out ports	12
	Number of PoE/PoE+/PoE++ Out ports	4
	PoE budget	370 W
	PoE power pins	Ports 1–4: 1–2 (-), 3–6 (+), 4–5 (+), 7–8 (-) Ports 5–16: 1–2 (+), 3–6 (-)
Enclosure Material	Metal	
Mounting Options	Rack/Desk	
Warranty	3 years	
System Specifications	Switching capacity	160 Gbps (bit/s)
	Forwarding rate	119.04 Mpps
	Buffer size	12 Mbit
	CPU	Single-core processor, 800 MHz clock frequency
	RAM	512 MB
	Flash memory	256 MB
Capacity Specification	Maximum number of VLANs	4094
	Maximum number of MAC address entries	16000
	Maximum number of ARP entries	1000
	IPv4 routing table size (host route)	6000
	Maximum number of IPv4 static routes	64
	Maximum number of IPv6 static routes	64
	IPv4 routing table size (network route)	512
	IPv6 routing table size (network route)	128
System Performance Capacity	Recommended camera limit	200 W H265: 300 400 W H265: 150
Power Supply and Consumption	Power input	220 V AC power supply: Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz Maximum input current: 6 A
	Max. power consumption	40 W (with no PoE load) 460 W (with full PoE load)
	Heat dissipation	No PoE load: 136.8 BTU/hr (90 V/50 Hz) Full PoE load: 1,573.2 BTU/hr (90 V/50 Hz)







Specifications

Environment and Reliability	Surge protection	Service port: ±6 kV for common mode Power connector: ±6 kV for both common mode and differential mode
	Operating temperature	0°C to +50°C (32°F to 122°F)
	Storage temperature	–40°C to +70°C (–40°F to +158°F)
	Operating humidity	10% RH to 90% RH (non-condensing)
	Storage humidity	5% RH to 95% RH (non-condensing)
	Fan	2 x fixed fans
	Cooling	Air cooling, left-to-rear airflow
	Altitude	Operating altitude: –500 m to +5,000 m (–1,640.42 ft. to +16,404.20 ft.) Storage altitude: –500 m to +5,000 m (–1,640.42 ft. to +16,404.20 ft.)
	MTBF	400,000 hours
	ESD protection	Contact discharge: 6 kV Air discharge: 8 kV
Package Contents		
Device	Device	1
Manual	User Manual	1
	Warranty Card	1
Accessories	Rubber pad	4
	Power cord retention clip	1
	Screw	8 x M4 x 8 mm cross recessed countersunk head screws
	Grounding cable	1 x 1 m (3.28 ft.)
	Power cord	1 x 1.8 m (5.91 ft.)
	Rack-mount bracket	2







Specifications

Software		
Ethernet Switching	Interface flow control	Yes
	MAC address-based VLAN	No
	IP subnet-based VLAN assignment	No
	Port-based VLAN	Yes
	IEEE 802.1Q VLAN	Yes
	Basic QinQ	No
	Voice VLAN	Yes
	STP, RSTP, MSTP	Yes
	LLDP/LLDP-MED	Yes
	Static MAC address	Yes
	MAC address filtering	Yes
	Static aggregation	Yes
	LACP	Yes
	Inbound or outbound rate limiting based on interface traffic	Yes
IP Service	ARP	Yes
	IPv4 ping	Yes
	IPv4 traceroute	Yes
	ICMPv6	Yes
	IPv6 ping	Yes
	IPv6 traceroute	Yes
	DNS client	Yes
	DNSv6 client	Yes
	DHCP relay	Yes
	DHCP server	No
	DHCP client	Yes
IP Routing	IPv4 static route	Yes
	IPv6 static route	Yes
	OSPFv2	No
	OSPFv3	No
Multicast	IGMPv1 snooping	Yes
	IGMPv2 snooping	Yes
	Basic IGMPv3 snooping	Yes
	Full IGMPv3 snooping	Yes
	IGMP filtering	Yes
	IGMPv1, v2, and v3	No

Specifications

ACL and QoS	Standard ACL	Yes
	Extended ACL	Yes
	802.1p priority-based traffic classification	Yes
	DSCP priority-based traffic classification	Yes
	Egress queues based on 802.1p and DSCP priorities	Yes
	Egress queues based on IP precedences	No
	Ingress flow-based rate limiting	No
	Queue scheduling	Yes
	DRR	No
	SP	Yes
	SP+DRR	No
	SP+WFQ	No
	SP+WRR	Yes
	WFQ	No
	WRR	Yes
	Congestion avoidance: tail drop	Yes
Security	802.1X authentication	Yes
	Inaccessible Authentication Bypass (IAB)	Yes
	MAC address-based 802.1X authentication	Yes
	Port-based 802.1X authentication	Yes
	Authentication, Authorization, and Accounting (AAA)	No
	Radius	Yes
	Port isolation	Yes
	Broadcast storm control	Yes
	Multicast storm control	Yes
	Unknown unicast storm control	Yes
	DHCP snooping	Yes
	IP-MAC-port binding	Yes
	ARP anti-spoofing	Yes
	IP source guard	Yes
	CPU protection policy	Yes
Reliability	VCS	No
	System dual backup	Yes
	Cloud-based auto-recovery	Yes
	ERPS	Yes
	Loop prevention	Yes

Specifications

Network Management and Monitoring	Web management	Yes
	Cloud management	Yes
	App management	Yes
	Mirroring	Yes
	Self-organizing network	Yes
	HTTPS login	Yes
	Syslog	Yes
	PoE service failure	Yes
	PoE power overload	Yes
	SNMPv1, v2c, and v3	Yes
	NTP client	Yes
	Camera detection	Yes
Basic Configurations	PoE watchdog	Yes
	Local upgrade	Yes
	Online upgrade	Yes
Interface	Jumbo frame length (MTU)	9216 bytes (global configuration mode)
	EEE	Yes
	Cable test	Yes
Compliance and Standard		
Certification and Regulatory Compliance	NDAA compliant	Yes
	Certification	FCC, ISED, cTUVus, TEC