



Product Overview

The LS2 Series is enterprise-class Layer 2 managed Gigabit switches designed for office, hotel, warehouse, retail, and similar scenarios. The series covers 8/24/48-port access switches, PoE models, and SFP fiber uplink options, making it suitable for connecting wireless APs, IP cameras, office clients, IP phones, access control devices, and other device types. With stable Gigabit access, enterprise-class Layer 2 features, security policies, and cloud-based remote management, the LS2 Series helps enterprises build secure, reliable, easy-to-manage, and scalable access-layer networks.

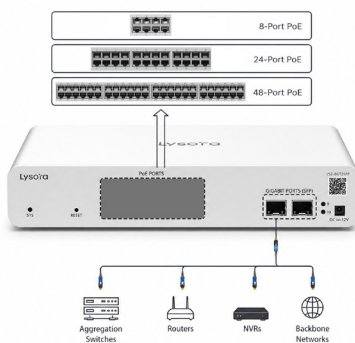
Features

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

	Total Ports	PoE+ Ports	PoE Budget	SFP Ports
LS2-8GT2SFP-P	10	8	125 W	2
LS2-24GT4SFP-P	28	24	370 W	4
LS2-48GT4SFP-P	52	48	370 W	4

Enterprise-Class Access Capabilities

The LS2 Series provides flexible access-layer options for different deployment scales, from compact edge access to higher-density enterprise access networks. 8/24/48-port PoE model options help match port count and power budget to the actual project size. SFP fiber uplinks support longer-distance connectivity to routers, aggregation switches, NVRs, or backbone networks. Gigabit access ports are suitable for wireless APs, IP cameras, IP phones, office PCs, access control devices, and other edge devices.



Enterprise-Class Layer 2 Features

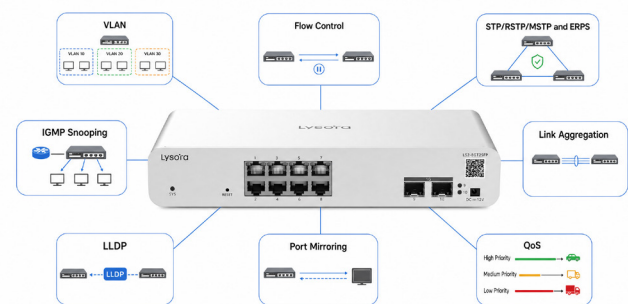
The LS2 Series provides a set of rich Layer 2 features to support traffic segmentation, redundancy, multicast optimization, topology visibility, and access-layer performance control.

VLAN assignment logically separates office, guest, surveillance, voice, and wireless traffic for simplified management and improved network segmentation. Flow control helps reduce packet loss under congestion by throttling traffic across connected links. STP/RSTP/MSTP and ERPS provide loop prevention and link redundancy, helping improve network availability in ring or redundant topologies.

IGMP Snooping forwards multicast traffic only to ports that request it, reducing unnecessary broadcast-like flooding and improving video or multicast efficiency. Link aggregation combines multiple physical links into a higher-bandwidth logical link and helps reduce uplink bottlenecks. LLDP advertises and discovers neighboring device information, making topology mapping and network maintenance easier.

Port mirroring forwards selected traffic to an analyzer port for monitoring and troubleshooting.

QoS prioritizes time-sensitive traffic such as voice, video, and critical service applications based on priority markings.



Multiple Security Policies

The LS2 Series provides access-layer security capabilities that help prevent unauthorized access, abnormal traffic, spoofing, and loop-related network disruption. Port isolation limits communication between selected access ports, helping protect users or clients connected to the same switch.

Loop prevention and broadcast storm control help prevent loops and traffic floods from degrading the entire LAN performance.

DHCP Snooping helps defend against unauthorized DHCP servers and improves control over IP address assignments. ACL policies provide flexible traffic filtering and access control for security and segmentation requirements. CPU Protection Policy helps protect switch control-plane resources from abnormal or excessive traffic. IP-MAC-Port Binding and 802.1X authentication strengthen client identity control and reduce spoofing or 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.



DATASHEET

LS2-8GT2SFP-P • LS2-24GT4SFP-P • LS2-48GT4SFP-P

Lysoira

Multiple Management Methods

The LS2 Series supports local and remote management options so administrators can choose the appropriate workflow for single-site, multi-site, and third-party monitoring scenarios.

Cloud management enables centralized monitoring and operations across distributed sites.

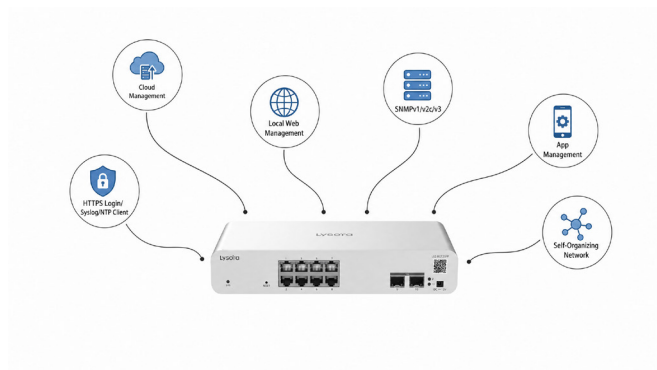
App management allows quick status checks and basic operations from mobile clients.

Local web management provides direct switch configuration for on-site or standalone deployments.

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.



Energy Efficiency and Reliability Design

The LS2 Series includes energy-efficient features designed to reduce unnecessary power consumption while maintaining stable access-layer operation.

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.

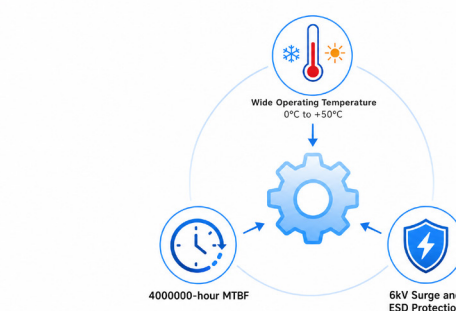
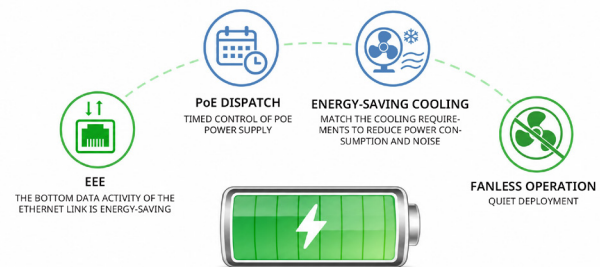
Energy-efficient cooling reduces excess power consumption and noise by matching cooling needs to operating conditions.

Fanless operation on selected models supports quiet deployments in offices, hotel areas, retail stores, and other acoustically sensitive locations.

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.



Multiple Troubleshooting Methods

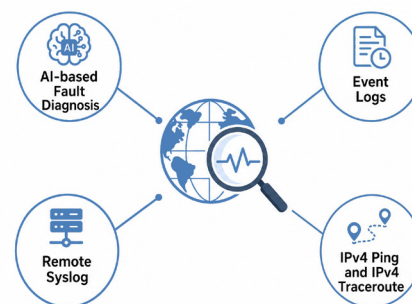
The LS2 Series offers practical diagnostic tools to help administrators identify connectivity, configuration, and event-related issues more quickly.

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.



LS2-8GT2SFP-P SPECIFICATIONS



Specifications

Hardware		
Dimensions	300 mm x 205 mm x 44 mm (11.81 in. x 8.07 in. x 1.73 in.)	
Weight	2.50 kg (5.51 lbs) (with packaging materials) 1.80 kg (3.97 lbs) (without packaging materials)	
Port Specifications	Total number of RJ45 ports	8
	Total number of optical ports	2
	Number of 1GE SFP ports	2
	Number of 10/100/1000BASE-T ports	8
PoE Specifications	Number of PoE/PoE+ Out ports	8
	PoE budget	125 W
	PoE power pins	1–2 (+), 3–6 (-)
Enclosure Material	Metal	
Mounting Options	Rack/Desk	
Warranty	3 years	
System Specifications	Switching capacity	20 Gbps (bit/s)
	Forwarding rate	14.88 Mpps
	Buffer size	4.1 Mbit
	CPU	Single-core processor, 500 MHz clock frequency
	RAM	512 MB
	Flash memory	16 MB
Capacity Specification	Maximum number of VLANs	4094
	Maximum number of MAC address entries	8000
	Maximum number of ARP entries	1000
System Performance Capacity	Recommended camera limit	200 W H265: 80 400 W H265: 40
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: 2.5 A
	Max. power consumption	11 W (with no PoE load) 145 W (with full PoE load)
	Heat dissipation	No PoE load: 37.62 BTU/hr (220 V/50 Hz) Full PoE load: 495.9 BTU/hr (220 V/50 Hz)



LS2-8GT2SFP-P SPECIFICATIONS



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	Fanless design
	Cooling	Natural cooling
	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	6 x 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



LS2-24GT4SFP-P SPECIFICATIONS



Specifications

Hardware		
Dimensions	440 mm x 215 mm x 44 mm (17.32 in. x 8.46 in. x 1.73 in.)	
Weight	3.53 kg (7.78 lbs) (with packaging materials) 3 kg (6.61 lbs) (without packaging materials)	
Port Specifications	Total number of RJ45 ports	24
	Total number of optical ports	4
	Number of 1GE SFP ports	4
	Number of 10/100/1000BASE-T ports	24
PoE Specifications	Number of PoE/PoE+ Out ports	24
	PoE budget	370 W
	PoE power pins	1–2 (+), 3–6 (-)
Enclosure Material	Metal	
Mounting Options	Rack/Desk	
Warranty	3 years	
System Specifications	Switching capacity	56 Gbps (bit/s)
	Forwarding rate	41.66 Mpps
	Buffer size	4.1 Mbit
	CPU	Single-core processor, 500 MHz clock frequency
	RAM	512 MB
	Flash memory	16 MB
Capacity Specification	Maximum number of VLANs	4094
	Maximum number of MAC address entries	8000
	Maximum number of ARP entries	1000
System Performance Capacity	Recommended camera limit	200 W H265: 120 400 W H265: 60
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	21 W (with no PoE load) 443 W (with full PoE load)
	Heat dissipation	No PoE load: 71.82 BTU/hr (220 V/50 Hz) Full PoE load: 1,515.06 BTU/hr (220 V/50 Hz)



LS2-24GT4SFP-P SPECIFICATIONS



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	1 x fixed fan
	Cooling	Air cooling, front-to-rear airflow + 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	6 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



LS2-48GT4SFP-P SPECIFICATIONS



Specifications

Hardware		
Dimensions	440 mm x 293 mm x 44 mm (17.32 in. x 11.54 in. x 1.73 in.)	
Weight	5.86 kg (12.92 lbs) (with packaging materials) 4.32 kg (9.52 lbs) (without packaging materials)	
Port Specifications	Total number of RJ45 ports	48
	Total number of optical ports	4
	Number of 1GE SFP ports	4
	Number of 10/100/1000BASE-T ports	48
PoE Specifications	Number of PoE/PoE+ Out ports	48
	PoE budget	370 W
	PoE power pins	1–2 (+), 3–6 (-)
Enclosure Material	Metal	
Mounting Options	Rack/Desk	
Warranty	3 years	
System Specifications	Switching capacity	104 Gbps (bit/s)
	Forwarding rate	77.37 Mpps
	Buffer size	16 Mbit
	CPU	Dual-core processor, 1 GHz clock frequency per core
	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
System Performance Capacity	Recommended camera limit	200 W H265: 200 400 W H265: 100
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	46 W (with no PoE load) 450 W (with full PoE load)
	Heat dissipation	No PoE load: 157.32 BTU/hr (220 V/50 Hz) Full PoE load: 1539 BTU/hr (220 V/50 Hz)



LS2-48GT4SFP-P SPECIFICATIONS



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, side-to-rear airflow
	Altitude	Operating altitude: 0 m to +5,000 m (0 ft. to +16,404.20 ft.) Storage altitude: 0 m to +5,000 m (0 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	6 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	No
	DHCP server	No
	DHCP client	Yes
IP Routing	IPv4 static route	No
	IPv6 static route	No
	OSPFv2	No
	OSPFv3	No
Multicast	IGMPv1 snooping	Yes
	IGMPv2 snooping	Yes
	Basic IGMPv3 snooping	Yes
	Full IGMPv3 snooping	No
	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	Only LS2-48GT4SFP-P Support
	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