



Product Overview

The Lyso^{ra} Industrial Switch Series is designed for CCTV, warehousing, campuses, factories, parking lots, road surveillance, outdoor cabinets, and complex low-voltage environments. It provides 8 Gigabit PoE access ports and 2 Gigabit SFP uplink ports, delivering stable data access and PoE power for IP cameras, wireless APs, access control devices, industrial terminals, and more. The series includes two models: the LCST-8GT2SFP-HP Industrial Cloud-Managed PoE Switch and the LS2T-8GT2SFP-HP Industrial Layer 2 Managed PoE Switch. It supports a high PoE budget, wide-temperature operation, DIN-rail/wall mounting, a metal enclosure, fanless natural cooling, surge/ESD protection, ERPS ring protection, VLAN, security protection, PoE Watchdog, cable testing, and cloud-based remote management, helping enterprises build stable, reliable, and easy-to-maintain industrial access networks in complex environments.

Features

- Industrial-Grade Protection Design
- Flexible Installation Options
- High-Power PoE / PoE++ Power Supply
- ERPS Ring Protection
- IPC Recognition
- Smart PoE Port Recovery
- Self-Organizing Network
- Cloud Management

Industrial-Grade Protection Design

Lysoira industrial switches use a metal enclosure and fanless natural cooling design, making them suitable for deployment in low-voltage cabinets, outdoor cabinets, industrial sites, and edge surveillance locations. The devices support wide-temperature operation, IP40 protection, port surge protection, and ESD protection, helping withstand complex environments such as high and low temperatures, dust, electromagnetic interference, and lightning surges to ensure long-term stable network operation.



Flexible Installation Options

Both models support DIN-rail and wall mounting, allowing flexible deployment in industrial control cabinets, surveillance pole cabinets, outdoor low-voltage cabinets, factory walls, or equipment rooms. The compact design makes installation easier in space-constrained cabinets and reduces on-site deployment difficulty.



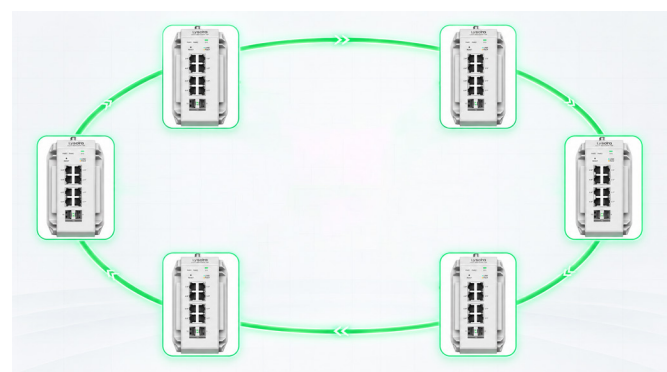
High-Power PoE / PoE++ Power Supply

The series provides 8 Gigabit PoE access ports to centrally power cameras, APs, access control devices, and industrial terminals, reducing the need for additional power adapters and power cabling. The LCST-8GT2SFP-HP supports a higher PoE budget and provides one PoE++ port, making it suitable for high-power cameras or special front-end devices. The LS2T-8GT2SFP-HP provides a 240 W PoE budget, suitable for stable multi-device power supply.



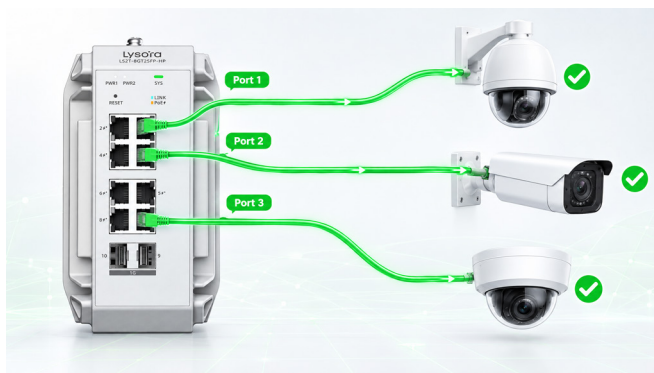
ERPS Ring Protection

The series supports ERPS ring protection, which requires SFP ports and can build a redundant ring network through fiber links. When a fiber link fails, ERPS can quickly switch traffic paths, improving the reliability of industrial networks and CCTV backhaul links. For multi-site deployments such as campuses, factories, road surveillance, and warehouses, ERPS fiber rings can reduce the impact of single-link failures on business continuity and ensure stable surveillance backhaul and industrial access networks.

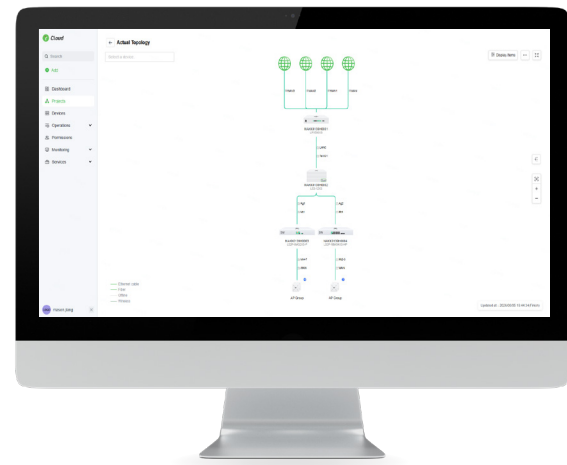


IPC Recognition

IPC recognition helps administrators identify whether the device connected to each port is a camera. This improves port management, troubleshooting, and asset visibility, especially in CCTV projects with a large number of cameras.

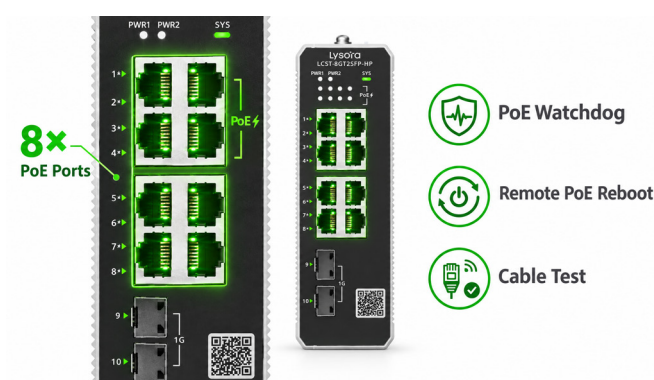


accelerates rollout, and gives administrators a clearer view of topology and centralized maintenance.



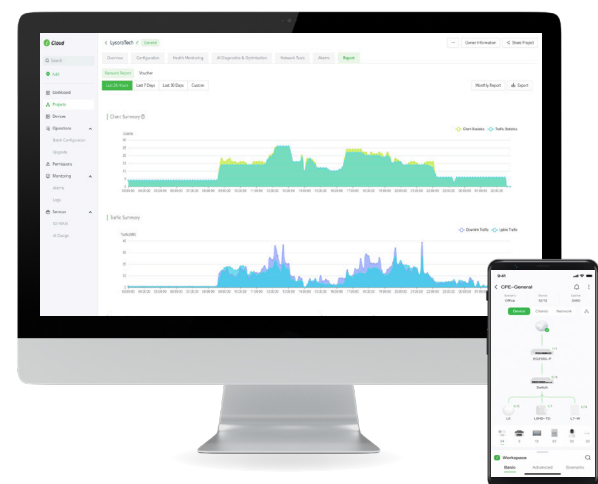
Smart PoE Port Recovery

The series supports PoE Watchdog, remote PoE reboot, and cable testing to help administrators resolve issues with offline cameras. When a camera becomes unresponsive, remote PoE operations can restore connectivity without requiring an on-site power cycle, reducing manual troubleshooting effort.



Cloud Management

Through the Lysora App and Lysora cloud platform, administrators can remotely view device status, port status, PoE status, and project-level device information from a centralized interface. For multi-branch, multi-site, or unattended deployments, remote management can significantly reduce on-site maintenance frequency and simplify SMB network operations.



Self-Organizing Network

The series supports self-organizing networking, helping administrators complete project creation, device discovery, and unified device onboarding after deployment. For projects with multiple devices, this capability reduces repetitive per-device configuration,

LCST-8GT2SFP-HP SPECIFICATIONS



Specifications

Overview		
Dimensions	50 mm x 155 mm x 130 mm (1.97 in. x 6.10 in. x 5.12 in.)	
Weight	0.79 kg (1.74 lbs) (without packaging materials) 1.10 kg (2.43 lbs) (with 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
	Number of PoE/PoE+/PoE++ Out ports	1
	PoE budget	Default: 228 W Max: 300 W (web reserved adjustable interface)
	PoE power pins	Port 1: 1–2 (-), 3–6 (+), 4–5 (+), 7–8 (-) Ports 2–8: 1–2 (+), 3–6 (-)
Enclosure Material	Metal	
Mounting Options	DIN rail/Wall	
Warranty	3 years	
Hardware		
System Specifications	Switching capacity	20 Gbps (bit/s)
	Forwarding rate	14.8 Mpps
	Buffer size	4.1 Mbit
	CPU	Single-core processor, 500 MHz clock frequency
	Flash memory	8 MB
System Performance Capacity	Recommended camera limit	200W H265: 90 400W H265: 45
Power Supply and Consumption	Power input	DC input: ● Rated voltage range: 46 V DC to 57 V DC ● Rated current range: 7 A
	Power supply	● DC power adapter ● Power module (Not included / Sold separately)
	Max. power consumption	12 W (with no PoE load) 312 W (with PoE full load)
	Heat dissipation	No PoE load: 41.04 BTU/hr (220 V/50 Hz) Full PoE load: 1067.04 BTU/hr (220 V/50 Hz)
Environment and Reliability	Surge protection	Service port: ±6 kV for common mode Power connector: ±4 kV for common mode and ±2 kV for differential mode
	IP rating	IP40
	Operating temperature	–40°C to +75°C (–40°F to +167°F)
	Storage temperature	–40°C to +85°C (–40°F to +185°F)
	Operating humidity	10% RH to 90% RH (non-condensing)



Specifications

Environment and Reliability	Storage humidity	5% RH to 95% RH (non-condensing)
	Fan	Fanless design
	Cooling	Natural cooling
	Altitude	–500 m to +5,000 m (–1,640.42 ft. to +16,404.20 ft.)
	MTBF	200,000 hours
	ESD protection	Air discharge: 15 kV Contact discharge: 8 kV
Software		
Basic Configurations	PoE watchdog	Yes
	Online upgrade	Yes
Interface	Jumbo frame length (MTU)	10000 bytes
	EEE	Yes
	Cable test	Yes
Ethernet Switching	Maximum number of VLANs	16
	Maximum number of MAC address entries	8000
	VLAN configuration supported on LAN ports	Yes
	IEEE 802.1Q VLAN	Yes
	Static MAC address	Yes
	Interface flow control	Yes
	Inbound or outbound rate limiting based on interface traffic	Yes
	ERPS	Yes
	Maximum number of devices supported by a single ring	50
	Layer 2 traffic convergence time	50 ms
IP Service	DNS client	Yes
	DHCP client	Yes
Security	Port isolation	Yes
	Broadcast storm control	Yes
	Multicast storm control	Yes
	Unknown unicast storm control	Yes
	CPU protection policy	Yes
	DHCP snooping	Yes



Specifications

Network Management and Monitoring	Web management	Yes
	Cloud management	Yes
	App management	Yes
	Mirroring	Yes
	Self-organizing network	Yes
	Camera detection	Yes
Compliance and Standard		
Certification and Regulatory Compliance	NDAA compliant	Yes
	Certification	FCC, ISED, cTUVus
Package Contents		
Device	Device	1
Manual	User Manual	1
	Warranty Card	1
Accessories	Screw	4 x M3 x 5 mm cross recessed countersunk head screws
	Rack-mount bracket	2

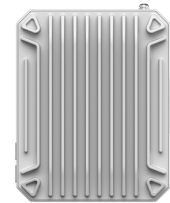


LS2T-8GT2SFP-HP SPECIFICATIONS



Specifications

Overview		
Dimensions	85 mm x 132 mm x 165 mm (3.35 in. x 5.2 in. x 6.5 in.)	
Weight	1.91 kg (4.21 lbs) (with packaging materials) 1.42 kg (3.13 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	240 W
	PoE power pins	1–2 (+), 3–6 (-)
Enclosure Material	Metal	
Mounting Options	DIN rail/Wall	
Warranty	3 years	
Hardware		
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	256 MB
	Flash memory	16 MB
System Performance Capacity	Recommended camera limit	200 W H265: 80 400 W H265: 40
Power Supply and Consumption	Power input	DC power input: Rated input voltage: 12 V DC to 56 V DC Maximum input current: 7 A
	Power supply	● DC power adapter ● Power module (Not included / Sold separately)
	Max. power consumption	20 W (with no PoE load) 80 W (full-load power when the input power is 12 V to 20 V) 140 W (full-load power when the input power is 21 V to 45 V) 260 W (full-load power when the input power is 46 V to 56 V)
	Heat dissipation	No PoE load: 68.4 BTU/hr (12 V DC to 56 V DC) Full PoE load: 273.6 BTU/hr (input: 12 V to 20 V) 478.8 BTU/hr (input: 21 V to 45 V) 889.2 BTU/hr (input: 46 V to 56 V)



Specifications

Environment and Reliability	Surge protection	Service port: ±6 kV for common mode Power connector: ±4 kV for common mode and ±2 kV for differential mode
	IP rating	IP40
	Operating temperature	-40°C to +65°C (-40°F to 149°F) (installed in a sealed cabinet) -40°C to +70°C (-40°F to 158°F) (installed in a fume hood with a ventilation speed of at least 80LFM (Line Feet Minute)) -40°C to +75°C (-40°F to 167°F) (installed in a fume hood with a ventilation speed of at least 200LFM (Line Feet Minute)) -40°C to +80°C (-40°F to 176°F) (installed in a fume hood with a ventilation speed of at least 400LFM (Line Feet Minute))
	Storage temperature	-40°C to +75°C (-40°F to +167°F)
	Operating humidity	5% RH to 95% 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
Software		
Ethernet Switching	Maximum number of VLANs	4094
	Maximum number of MAC address entries	8000
	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



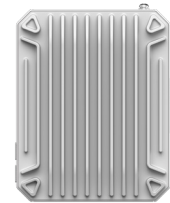
Specifications

Ethernet Switching	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	Maximum number of ARP entries	1000
	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
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



Specifications

ACL and QoS	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	No
	Cloud-based auto-recovery	Yes
	ERPS	Yes: Standalone No: Hot standby
	Loop prevention	Yes
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



LS2T-8GT2SFP-HP ┐ SPECIFICATIONS

Lysoira

Specifications

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
Package Contents		
Device	Device	1
Manual	User Manual	1
	Warranty Card	1
Accessories	Screw	4 x M3 x 6 mm cross recessed countersunk head screws
	Rack-mount bracket	2

