DATASHEET
L6Pro-T • L7-T



Product Overview

The Lysora outdoor AP portfolio is designed to meet the growing wireless networking needs of small and medium-sized businesses in outdoor environments, helping enterprises build high-performance outdoor wireless networks cost-effectively. Whether for outdoor public areas, surveillance backhaul, mobile terminals, IoT devices, or guest access, Lysora outdoor APs provide stable wireless coverage, reliable connectivity, and flexible scalability for daily business operations.

To address outdoor scenarios of different scales, Lysora offers two Wi-Fi 6 and Wi-Fi 7 outdoor access points that support different concurrent client requirements. The portfolio is suitable for outdoor areas of hotels, retail parks, warehouses, campuses, parking lots, courtyards, and commercial public spaces. The products support intelligent cloud-based management, simple configuration, and fast deployment, while integrating multiple enterprise-class features by default. This helps administrators reduce on-site maintenance workload and respond quickly to network changes.

Wi-Fi has become a critical infrastructure for modern business operations, extending beyond indoor spaces into outdoor business environments. From weather-resistant hardware installation and remote device management to enterprise-class software features, Lysora outdoor APs are designed for rapid deployment, stable operation, and simplified maintenance, helping enterprises build high-performance outdoor wireless networks that can evolve with their business needs.

Model	Wi-Fi Protocol	MIMO	Ports	PoE In standard
L6Pro-T	AX3000	2.4 GHz: 2 x 2 MU-MIMO 5 GHz: 2 x 2 MU-MIMO	1 x 10/100/1000BASE-T port 1 x GE SFP port	PoE+/PoE
L7-T	BE5040	2.4 GHz: 2 x 2 MU-MIMO 5 GHz: 3 x 3 MU-MIMO	1 x 10/100/1000/2500BASE-T port	PoE+/PoE

Features

- Wi-Fi 6 / Wi-Fi 7 Outdoor Portfolio
- Outdoor-Rated Reliability for Harsh Environments
- Long-Range Coverage to Reduce Outdoor Blind Spots
- 2.5G / Fiber Uplinks for Flexible Deployment
- AI Optimization for Better Wi-Fi Experience
- AI Roaming for Smoother AP Handover
- AI Heatmap for Visual Coverage Planning
- One-Click Mesh for Easier Expansion
- Free Cloud Management for Easier Remote Operations
- One-Click Guest Wi-Fi / IoT Wi-Fi Creation
- Wireless Client Identification for Clearer Network Visibility
- SON for More Efficient Batch Deployment
- One-Click Portal for Professional Guest Access

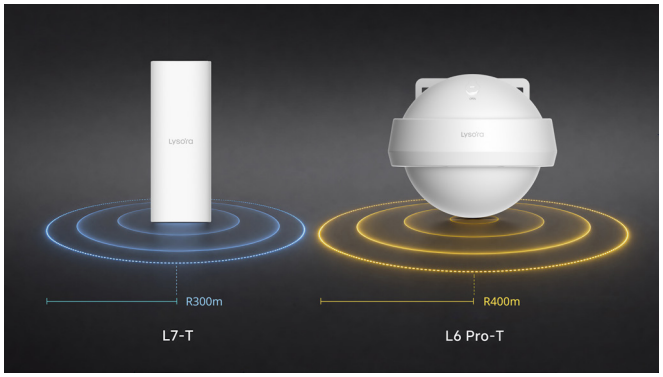
Wi-Fi 6 / Wi-Fi 7 Outdoor Portfolio

L6Pro-T provides AX3000 Wi-Fi 6 access, while L7-T provides BE5040 Wi-Fi 7 access, covering needs from mainstream outdoor wireless coverage to high-performance Wi-Fi 7 upgrades. They are suitable for campuses, warehouses, parking lots, hotel outdoor areas, commercial streets, and CCTV scenarios.



Long-Range Coverage to Reduce Outdoor Blind Spots

In ideal environments, L7-T supports up to 300 m coverage on 5 GHz, while L6Pro-T supports up to 400 m coverage on 5 GHz. They are suitable for open outdoor areas, roads, warehouse yards, parking lots, and campus public spaces, helping reduce outdoor wireless blind spots and repeated AP placement.



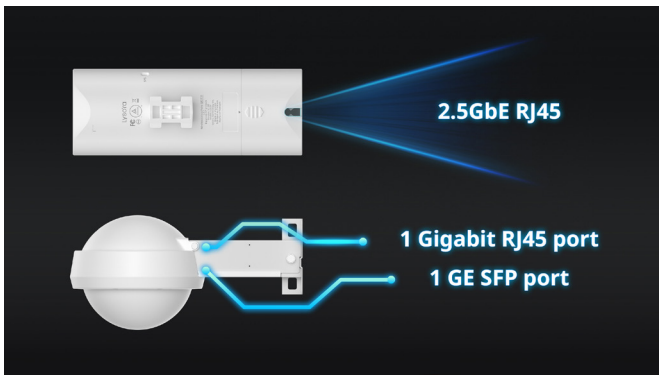
Outdoor-Rated Reliability for Harsh Environments

L7-T supports IP65 protection, while L6Pro-T supports IP68 protection. Both models support an operating temperature range from -30°C to +65°C and ±4 kV lightning/surge protection, ensuring long-term stable operation in outdoor environments with heat, cold, humidity, dust, and complex cabling conditions.



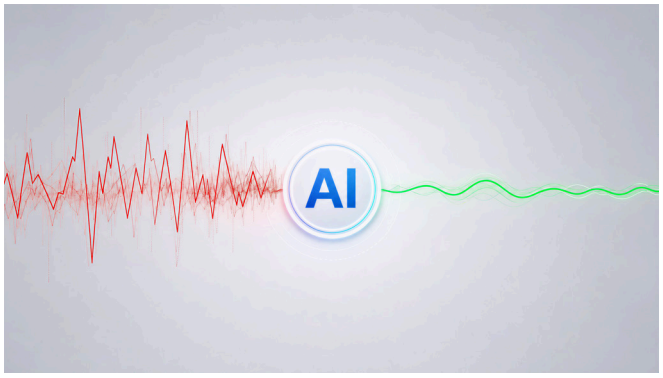
2.5G / Fiber Uplinks for Flexible Deployment

L7-T is equipped with one 2.5GbE RJ45 port to reduce Wi-Fi 7 backhaul bottlenecks. L6Pro-T provides one Gigabit RJ45 port and one GE SFP port, making it suitable for long-distance fiber uplink or outdoor-to-equipment-room fiber access deployments.



AI Optimization for Better Wi-Fi Experience

AI Optimization helps automatically optimize channels, transmit power, and management frame power settings, while displaying both pre- and post-optimization configurations. Administrators can reduce manual tuning work and improve wireless interference, weak coverage, and channel conflict issues more efficiently.



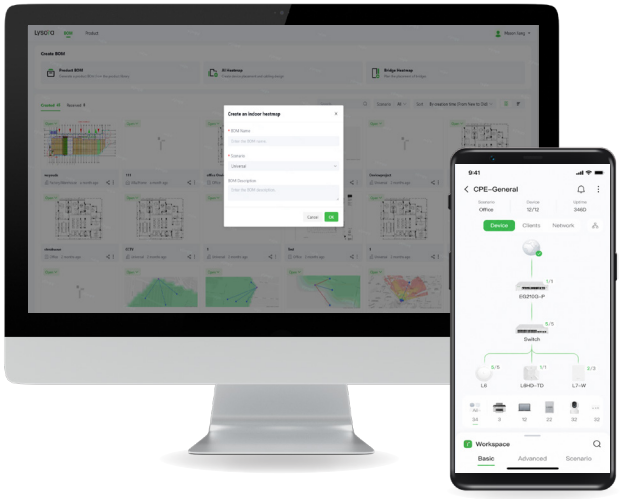
AI Roaming for Smoother AP Handover

Designed for multi-AP environments such as hotels, office buildings, villas, and retail stores, Lysora AI Roaming works with 802.11k/v/r, Layer 2 roaming, and Layer 3 roaming to dynamically optimize roaming behavior based on client type, signal quality, AP load, and wireless conditions. This helps reduce sticky clients, frequent roaming, and mobile disconnection issues.



AI Heatmap for Visual Coverage Planning

With heatmap tools in the cloud platform and mobile app, administrators and integrators can visually evaluate AP coverage for network planning, installation guidance, and acceptance testing. Compared with experience-based placement, Heatmap helps reduce coverage blind spots, lower rework risk, and improve project professionalism.



One-Click Mesh for Easier Expansion

The series supports Wireless Meshing and Mesh Management, enabling fast coverage expansion in areas where cabling is difficult, temporary expansion is needed, or wireless blind spots must be filled. APs can join the Mesh network through unified configuration, reducing cabling costs and simplifying deployment.



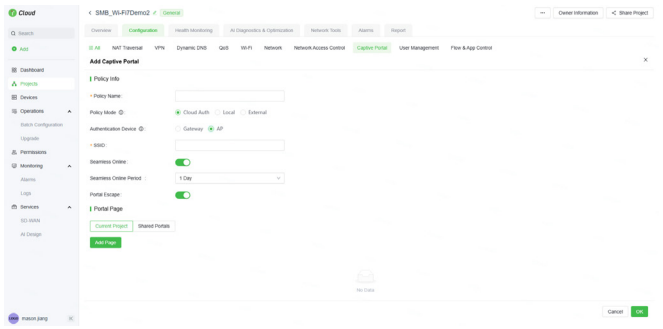
Free Cloud Management for Easier Remote Operations

Lysora Cloud, Lysora App, local Web management, and SNMP are supported. Administrators can remotely view AP status, wireless configurations, client connections, and project health. For multi-store, multi-office, and unattended deployments, free cloud management helps reduce on-site maintenance and long-term operation costs.



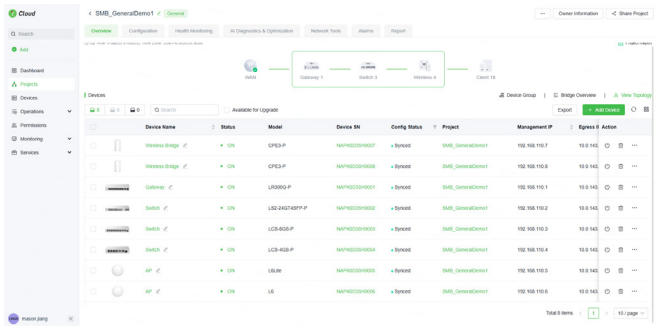
One-Click Guest Wi-Fi / IoT Wi-Fi Creation

Each AP supports up to 8 SSIDs, making it easy to create separate wireless networks for employees, guests, IoT devices, surveillance, or business services. Combined with 802.1Q VLAN, client isolation, Wi-Fi rate limiting, and Wi-Fi schedules, different types of traffic can be logically isolated and managed more precisely.



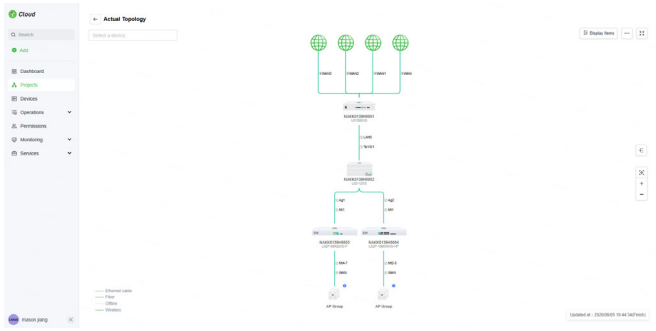
Wireless Client Identification for Clearer Network Visibility

The cloud platform centrally displays wireless client connection status, helping administrators understand the online status, connected AP, and network usage of PCs, phones, tablets, IPCs, NVRs, and IoT devices. In multi-AP projects, this helps identify abnormal clients, weak-signal connections, and potential fault points more quickly.



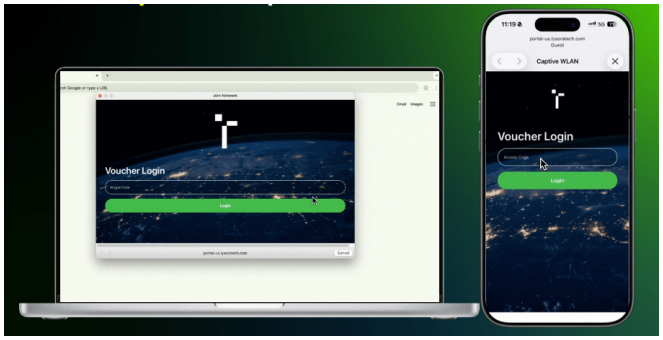
SON for More Efficient Batch Deployment

The series supports Self-Organizing Network with up to 300 APs. Devices can be automatically discovered, onboarded, centrally configured, and displayed in a topology view, helping projects move from single-device configuration to full-network deployment.



One-Click Portal for Professional Guest Access

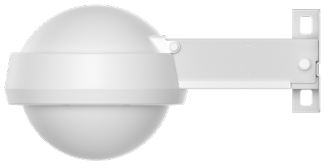
Captive Portal and bandwidth limiting are supported, allowing customers to quickly build guest authentication networks for hotels, restaurants, retail stores, schools, and office visitors. Without complex external systems, businesses can provide more standardized guest access while controlling guest bandwidth usage.

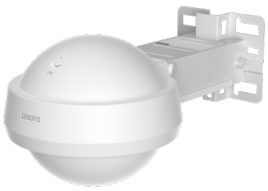


Specifications

Hardware	
Dimensions	Ø230 mm x 195 mm (Ø9.06 in. x 7.68 in.) (spherical device, excluding the mounting bracket)
Weight	≤ 1.4 kg (3.09 lbs.) (without packaging materials) ≤ 4.62 kg (10.19 lbs.) (with packaging materials)
Wi-Fi Standards	IEEE 802.11a/b/g/n/ac/ax
Spatial Streams	4
Coverage Range	5 GHz max: 400 m (1312.34 ft.) 2.4 GHz max: 150 m (492.13 ft.) 5 GHz recommended: 200 m (656.17 ft.) 2.4 GHz recommended: 50 m (164.04 ft.) Note: The data is obtained in an ideal environment without obstruction. The signal coverage radius depends on client performance and environmental interference.
Maximum Number of Clients	64 (2.4 GHz) 512 (5 GHz) 512 (2.4 GHz and 5 GHz)
Recommended Number of Associated Wireless Clients	Support for IEEE 802.11ax and 160 MHz: · 16 (2.4 GHz) · 94 (5 GHz) · 110 (2.4 GHz and 5 GHz) Support for IEEE 802.11ax and 80 MHz: · 16 (2.4 GHz) · 64 (5 GHz) · 80 (2.4 GHz and 5 GHz) Support for IEEE 802.11ac: · 8 (2.4 GHz) · 32 (5 GHz) · 40 (2.4 GHz and 5 GHz)
Mounting Options	Wall/Pole
Networking Interface	1 x 10/100/1000BASE-T port 1 x GE SFP port
Wi-Fi Protocols	2.4 GHz: IEEE 802.11b/g/n/ax 5 GHz: IEEE 802.11a/n/ac/ax
MIMO	2.4 GHz: 2 x 2 MU-MIMO 5 GHz: 2 x 2 MU-MIMO
Channel Width	2.4 GHz: 20/40 MHz 5 GHz: 20/40/80/160 MHz
Wireless Data Rate	2.4 GHz: 573 Mbps 5 GHz: 2401 Mbps
Antenna Gain	2.4 GHz: 4.38 dBi 5 GHz: 7.50 dBi
Max. Transmit Power	2400–2483.5 MHz: EIRP ≤ 36 dBm 5150–5250 MHz: EIRP ≤ 36 dBm 5250–5350 MHz: EIRP ≤ 30 dBm 5470–5725 MHz: EIRP ≤ 30 dBm 5725–5850 MHz: EIRP ≤ 36 dBm





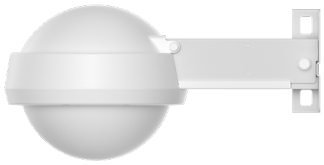


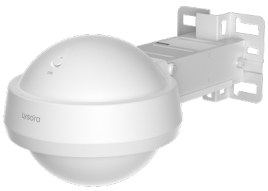
Specifications

Power Consumption	≤ 24 W
Power Input	· IEEE 802.3af (PoE) Note: Radio transmission and reception is limited to 2T2R at 2.4 GHz and 5 GHz, and the wireless rate at 5 GHz is 60% of the original rate. · IEEE 802.3at (PoE+)
Modulation	OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps MIMO-OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM and 1024-QAM OFDMA
Receive Sensitivity	802.11b: –91 dBm (1 Mbps), –88 dBm (5.5 Mbps), –85 dBm (11 Mbps) 802.11a/g: –89 dBm (6 Mbps), –80 dBm (24 Mbps), –76 dBm (36 Mbps), –71 dBm (54 Mbps) 802.11n: –83 dBm (MCS0), –65 dBm (MCS7), –83 dBm (MCS8), –65 dBm (MCS15) 802.11ac: 20 MHz: –83 dBm (MCS0), –57 dBm (MCS9) 802.11ac: 40 MHz: –79 dBm (MCS0), –57 dBm (MCS9) 802.11ac: 80 MHz: –76 dBm (MCS0), –51 dBm (MCS9) 802.11ac: 160 MHz: –76 dBm (MCS0), –50 dBm (MCS9) 802.11ax: 20 MHz: –85 dBm (MCS0), –58 dBm (MCS11) 802.11ax: 40 MHz: –82 dBm (MCS0), –54 dBm (MCS11) 802.11ax: 80 MHz: –79 dBm (MCS0), –52 dBm (MCS11) 802.11ax: 160 MHz: –76 dBm (MCS0), –49 dBm (MCS11)
LED	1 x System Status LED
Button	1 x Reset button
Environment	Operating Temperature: –30°C to +65°C (–22°F to +149°F) Storage Temperature: –40°C to +85°C (–40°F to +185°F) Operating Humidity: 0% RH to 100% RH (non-condensing) Storage Humidity: 0% RH to 100% RH (non-condensing)
Weather Resistance	IP Rating: IP68 Lightning Protection/Surge Protection: ±4 kV

Package Contents		
Device	Device	1
Manual	User Manual	1
	Warranty Card	1
Accessories	Hose clamps	2
	Mounting bracket	1
	Mounting arm (Pre-installed)	1
	Cover of a mounting arm	1
	Internal/External hex machine screws (M8 x 20 mm)	2
	Expansion anchors (M8 x 60 mm)	4
	Cable gland for an SFP port	1
	SFP port plug (pre-installed)	1







Specifications

Hardware	
Dimensions	90 mm x 46 mm x 239 mm (3.54 in. x 1.81 in. x 9.41 in.) (excluding the mounting bracket)
Weight	≤ 0.7 kg (1.54 lbs.) (without packaging materials) ≤ 1 kg (2.20 lbs) (with packaging materials)
Wi-Fi Standards	IEEE 802.11a/b/g/n/ac/ax/be
Spatial Streams	5
Coverage Range	5 GHz max: 300 m (984.25 ft.) 2.4 GHz max: 100 m (328.08 ft.) 5 GHz recommended: 150 m (492.13 ft.) 2.4 GHz recommended: 50 m (164.04 ft.) Note: The data is obtained in an ideal environment without obstruction. The signal coverage radius depends on client performance and environmental interference.
Maximum Number of Clients	64 (2.4 GHz) 511 (5 GHz) 511 (2.4 GHz and 5 GHz)
Recommended Number of Associated Wireless Clients	Support for IEEE 802.11ax and 160 MHz: · 16 (2.4 GHz) · 94 (5 GHz) · 110 (2.4 GHz and 5 GHz) Support for IEEE 802.11ax and 80 MHz: · 16 (2.4 GHz) · 64 (5 GHz) · 80 (2.4 GHz and 5 GHz) Support for IEEE 802.11ac: · 8 (2.4 GHz) · 32 (5 GHz) · 40 (2.4 GHz and 5 GHz)
Mounting Options	Wall/Pole
Networking Interface	1 x 10/100/1000/2500BASE-T port
Wi-Fi Protocols	2.4 GHz: IEEE 802.11b/g/n/ax/be 5 GHz: IEEE 802.11a/n/ac/ax/be
MIMO	2.4 GHz: 2 x 2 MU-MIMO 5 GHz: 3 x 3 MU-MIMO
Channel Width	2.4 GHz: 20/40 MHz 5 GHz: 20/40/80/160 MHz
Wireless Data Rate	2.4 GHz: 688 Mbps 5 GHz: 4323 Mbps
Antenna Gain	2.4 GHz: 3.62 dBi 5 GHz: 6.28 dBi
Max. Transmit Power	2400–2483.5 MHz: EIRP ≤ 36 dBm 5150–5250 MHz: EIRP ≤ 36 dBm 5250–5350 MHz: EIRP ≤ 30 dBm 5470–5725 MHz: EIRP ≤ 30 dBm 5725–5850 MHz: EIRP ≤ 36 dBm







Specifications

Power Consumption	≤ 21 W
Power Input	PoE+
Modulation	OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, and 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps MIMO-OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, and 4096-QAM OFDMA
Receive Sensitivity	802.11b: –91 dBm (1 Mbps), –88 dBm (5.5 Mbps), –85 dBm (11 Mbps) 802.11a/g: –89 dBm (6 Mbps), –80 dBm (24 Mbps), –76 dBm (36 Mbps), –71 dBm (54 Mbps) 802.11n: –83 dBm (MCS0), –65 dBm (MCS7), –83 dBm (MCS8), –65 dBm (MCS15) 802.11ac: 20 MHz: –83 dBm (MCS0), –57 dBm (MCS9) 802.11ac: 40 MHz: –79 dBm (MCS0), –57 dBm (MCS9) 802.11ac: 80 MHz: –76 dBm (MCS0), –51 dBm (MCS9) 802.11ac: 160 MHz: –76 dBm (MCS0), –50 dBm (MCS9) 802.11ax: 20 MHz: –85 dBm (MCS0), –58 dBm (MCS11) 802.11ax: 40 MHz: –82 dBm (MCS0), –54 dBm (MCS11) 802.11ax: 80 MHz: –79 dBm (MCS0), –52 dBm (MCS11) 802.11ax: 160 MHz: –76 dBm (MCS0), –49 dBm (MCS11) 802.11be: 20 MHz: –85 dBm (MCS0), –52 dBm (MCS13) 802.11be: 40 MHz: –82 dBm (MCS0), –49 dBm (MCS13) 802.11be: 80 MHz: –82 dBm (MCS0), –46 dBm (MCS13) 802.11be: 160 MHz: –79 dBm (MCS0), –44 dBm (MCS13)
LED	1 x System Status LED
Button	1 x Reset button
Environment	Operating Temperature: –30°C to +65°C (–22°F to +149°F) Storage Temperature: –40°C to +85°C (–40°F to +185°F) Operating Humidity: 0% RH to 100% RH (non-condensing) Storage Humidity: 0% RH to 100% RH (non-condensing)
Weather Resistance	IP Rating: IP65 Lightning Protection/Surge Protection: ±4 kV

Package Contents		
Device	Device	1
Manual	User Manual	1
	Warranty Card	1
Accessories	Mounting bracket	1
	Metal hose clamp	1
	Cross pan head screws (ST3.5 x 25 mm)	2
	Plastic expansion anchors (φ6 x 25 mm)	2







Specifications

Software		
Working Mode	Router Mode	Yes
	AP Mode	Yes
WLAN	Max. Number of SSIDs	8
	Band Steering	Yes
	Wireless Meshing	Yes
	Wi-Fi Multimedia (WMM)	Yes
	802.1Q VLAN	Yes
	Multi-Link Operation (MLO)	Yes (only WiFi 7)
	4K-QAM	Yes (only WiFi 7)
	RF Beamforming	Yes
	Wi-Fi Speed Limiting	Yes
	Client Isolation	Yes
	Scheduled Wi-Fi	Yes
Roaming	802.11v	Yes
	802.11k	Yes
	802.11r	Yes
	Layer 2 Roaming	Yes
	Layer 3 Roaming	Yes
Security	PSK Authentication	Yes
	WPA (TKIP), WPA2 (AES), and WPA-PSK	Yes
	OWE (Enhanced Open), WPA3-SAE, WPA2-PSK/ WPA3-SAE	Yes
	802.1X Authentication	Yes
IP Service	Ping	Yes
	Traceroute	Yes
Routing	NAT	Yes
	Static IP Address	Yes
	DHCP Server	Yes
	PPPoE Client PPPoE Dial-up	Yes
AP Mesh	Mesh Management	Yes
Standalone Portal	Captive Portal	Yes
	Bandwidth Limiting	Yes
	Data Quota	No
Management and Maintenance	Number of APs on a Self-Organizing Network	300
	Unified Networking for All Network Equipment	Yes
	Local Management Through Lysora App	Yes
	Local Management Through the Web Interface	Yes
	Remote Management Through Lysora Cloud	Yes
	SNMP	Yes
Platform Management Features	AI Optimization	Yes
	Unified Configuration or Monitoring Through Lysora Cloud	Yes

Specifications

Compliance and Standard	
NDAA Compliant	Yes
Certification	FCC, ISED, cTUVus
Operating Frequency	2400–2483.5 MHz 5150–5250 MHz 5250–5350 MHz 5470–5725 MHz 5725–5850 MHz