Lysora

# L6

Wi-Fi 6 AX3000 Dual-Band Ceiling Mount Access Point

DATASHEET

| Overview | |
|---|---|
| **Dimensions** | Ø220 mm x 52.6 mm (Ø8.66 in. x 2.07 in.) (excluding the mounting bracket) |
| **Weight** | ≤ 0.5 kg (1.10 lbs.) (without packaging materials)<br>≤ 0.7 kg (1.54 lbs.) (with packaging materials) |
| **Wi-Fi Standards** | IEEE 802.11 a/b/g/n/ac/ax |
| **Spatial Streams** | 4 |
| **Coverage Area** | 145 ㎡ (1560.77 square ft.)<br>Note: The data is obtained in an ideal environment without obstruction. The signal coverage radius depends on client performance and environmental interference. |
| **Max. Client Count** | 64 (2.4 GHz)<br>512 (5 GHz)<br>512 (2.4 GHz and 5 GHz enabled) |
| **Recommended number of associated wireless clients** | • Support for IEEE 802.11ax and 160 MHz:<br>16 (2.4 GHz)<br>94 (5 GHz)<br>110 (2.4 GHz and 5 GHz enabled)<br>• Support for IEEE 802.11ax and 80 MHz:<br>16 (2.4 GHz)<br>84 (5 GHz)<br>100 (2.4 GHz and 5 GHz enabled)<br>• Support for IEEE 802.11ac:<br>16 (2.4 GHz)<br>64 (5 GHz)<br>80 (2.4 GHz and 5 GHz enabled) |
| **Mounting** | Ceiling Mount, Wall-mounted (Mounts Included) |
| **Hardware** | |
| **Networking Interface** | (1) 1GbE RJ45 port |
| **Wi-Fi Protocols** | 2.4 GHz: IEEE 802.11 b/g/n/ax<br>5 GHz: IEEE 802.11 a/n/ac/ax |
| **MIMO** | 2.4 GHz: 2 x 2 MU-MIMO<br>5 GHz: 2 x 2 MU-MIMO |
| **Channel bandwidth** | 2.4 GHz: 20/40 MHz<br>5 GHz: 20/40/80/160 MHz |
| **Throughput rate** | 2.4 GHz: 573 Mbps<br>5 GHz: 2401 Mbps |
| **Antenna Gain** | 2.4 GHz: 3.53 dBi<br>5 GHz: 5.15 dBi |
| **Max. Transmit Power** | 2.4 GHz: 28 dBm<br>5 GHz: 29.7 dBm |

| | | |
|---|---|---|
| **Power Consumption** | ≤ 18 W | |
| **Power Method** | PoE/PoE+<br>DC (12 V, 2A), DC Power Adapter Is Not Included | |
| **Modulation** | OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, and 64-QAM @ 48/54 Mbps<br>DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps<br>MIMO-OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, and 1024-QAM<br>OFDMA | |
| **Receiver Sensitivity** | 11b: –91 dBm (1 Mbps), –88 dBm (5.5 Mbps), –85 dBm (11 Mbps)<br>11a/g: –89 dBm (6 Mbps), –80 dBm (24 Mbps), –76 dBm (36 Mbps), –71 dBm (54 Mbps)<br>11n: –83 dBm (MCS0), –65 dBm (MCS7), –83 dBm (MCS8), –65 dBm (MCS15)<br>11ac: 20 MHz: –83 dBm (MCS0), –57 dBm (MCS9)<br>11ac: 40 MHz: –79 dBm (MCS0), –57 dBm (MCS9)<br>11ac: 80 MHz: –76 dBm (MCS0), –51 dBm (MCS9)<br>11ac: 160 MHz: –76 dBm (MCS0), –50 dBm (MCS9)<br>11ax: 20 MHz: –85 dBm (MCS0), –58 dBm (MCS11)<br>11ax: 40 MHz: –82 dBm (MCS0), –54 dBm (MCS11)<br>11ax: 80 MHz: –79 dBm (MCS0), –52 dBm (MCS11)<br>11ax: 160 MHz: –76 dBm (MCS0), –49 dBm (MCS11) | |
| **LED** | 1 x System LED indicator (blue) | |
| **Button** | 1 x Factory reset | |
| **Environment** | Operating Temperature: 0°C to 40°C (32°F to 104°F)<br>Storage Temperature: –40°C to +70°C (–40°F to +158°F)<br>Operating Humidity: 5% RH to 95% RH (non-condensing)<br>Storage Humidity: 5% RH to 95% RH (non-condensing) | |
| **Weather Resistance** | IP Rating: IP41<br>Lightning Protection/Surge Protection: ±2 kV | |
| **Software** | | |
| **Working Mode** | Router Mode | YES |
| | AP Mode | YES |
| **WLAN** | Max. Number of SSIDs | 8 per radio |
| | Band Steering | YES |
| | Wireless Meshing | YES |
| | Wi-Fi Multimedia (WMM) | YES |
| | 802.1Q VLAN | YES |
| | Multi-Link Operation (MLO) | NO |
| | 4K-QAM | NO |

| | | |
|---|---|---|
| | RF Beamforming | YES |
| | WiFi Speed Limiting | YES |
| | Client Device Isolation | YES |
| | Wi-Fi Schedules | YES |
| **Roaming** | 802.11v | YES |
| | 802.11k | YES |
| | 802.11r | YES |
| | Layer2 roaming | YES |
| | Layer3 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 | YES |
| | Ping | YES |
| | Traceroute | YES |
| **Routing** | NAT | YES |
| | Static IP address | YES |
| | DHCP Server | YES |
| | PPPoE Client<br>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 or Remote Management through Lysora App | YES |
| | Local Management through the Web Interface | YES |
| | Remote Management through Lysora Cloud | YES |
| | SNMP | YES |

| | | |
|---|---|---|
| **Platform Management Features** | Optimization of Channel, Transmit Power, and Management Frame Power Settings. Both Pre- and Pro-Optimization Settings are Displayed. | YES |
| | Unified Configuration or Monitoring through Lysora Cloud | YES |
| **Compliance and Standard** | | |
| **NDAA Complain** | Yes | |
| **Health** | UL 62368-1:2019 | |
| **RF** | FCC 47 CFR Part 2 Subpart J<br>FCC 47 CFR Part 15 Subpart E<br>IC RSS-247 Issue 3 | |
| **EMC** | FCC 47 CFR Part 15 Subpart B<br>ICES-003 Issue 7 | |
| **Certifications** | FCC, IC | |
| **Operating Frequency** | US/CA:<br>2400 - 2472 MHz<br>U-NII-1: 5150 - 5250 MHz<br>U-NII-2A: 5250 - 5350 MHz<br>U-NII-2C: 5470 - 5725 MHz<br>U-NII-3: 5725 - 5850 MHz<br>U-NII-5 to U-NII-8 : 5925 - 7125 MHz<br><br>Worldwide:<br>2400 - 2483.5 MHz<br>5150 - 5725 MHz<br>5925 - 7125 MHz | |

Lysora

# Deliver Intelligent Networks