Lysora

L7-T

Wi-Fi 7 BE5040 Dual-Band Outdoor Access Point

DATASHEET

Overview	
Dimensions	90 mm x 46 mm x 239 mm (3.54 in. x 1.81 in. x 9.41 in.)
Weight	≤ 0.7 kg (1.54 lbs.) (without packaging materials)
Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax/be
Spatial Streams	5
Coverage Area	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.
Max. Client Count	110+
Mounting	Wall, Pole (Mounts Included)
Hardware	
Networking Interface	(1) 2.5GbE RJ45 port
Wi-Fi Protocols	2.4 GHz: IEEE 802.11 b/g/n/ax/be 5 GHz: IEEE 802.11 a/n/ac/ax/be
MIMO	2.4 GHz: 2 x 2 MU-MIMO 5 GHz: 3 x 3 MU-MIMO
Channel bandwidth	2.4 GHz: 20/40 MHz 5 GHz: 20/40/80/160 MHz
Throughput 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	2.4 GHz: 26 dBm 5 GHz: 26 dBm
Power Consumption	≤ 21 W
Power Method	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
Receiver Sensitivity	11b: –91 dBm (1 Mbps), –88 dBm (5.5 Mbps), –85 dBm (11 Mbps) 11a/g: –89 dBm (6 Mbps), –80 dBm (24 Mbps), –76 dBm (36 Mbps), –71 dBm (54 Mbps) 11n: –83 dBm (MCS0), –65 dBm (MCS7), –83 dBm (MCS8), –65 dBm (MCS15) 11ac: 20 MHz: –83 dBm (MCS0), –57 dBm (MCS9) 11ac: 40 MHz: –79 dBm (MCS0), –57 dBm (MCS9)

	11ac: 80 MHz: –76 dBm (MCS0), –51 dBm (MCS9) 11ac: 160 MHz: –76 dBm (MCS0), –50 dBm (MCS9) 11ax: 20 MHz: –85 dBm (MCS0), –58 dBm (MCS11) 11ax: 40 MHz: –82 dBm (MCS0), –54 dBm (MCS11) 11ax: 80 MHz: –79 dBm (MCS0), –52 dBm (MCS11) 11ax: 160 MHz: –76 dBm (MCS0), –49 dBm (MCS11) 11be: 20 MHz: –85 dBm (MCS0), –52 dBm (MCS13) 11be: 40 MHz: –82 dBm (MCS0), –49 dBm (MCS13) 11be: 80 MHz: –82 dBm (MCS0), –46 dBm (MCS13) 11be: 160 MHz: –79 dBm (MCS0), –44 dBm (MCS13)	
LED	1 x System LED indicator (blue)	
Button	1 x Factory reset	
Environment	Operating Temperature: –30°C to +65°C (–22°F to +149°F) 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)	
Weather Resistance	IP Rating: IP65 Lightning Protection/Surge Protection: ±4 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)	YES
	4K-QAM	YES
	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 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 FCC 47 CFR Part 15 Subpart E IC RSS-247 Issue 3
EMC	FCC 47 CFR Part 15 Subpart B ICES-003 Issue 7
Certifications	FCC, IC, cTUVus
Operating Frequency	US/CA: 2400 - 2472 MHz U-NII-1: 5150 - 5250 MHz U-NII-2A: 5250 - 5350 MHz U-NII-2C: 5470 - 5725 MHz U-NII-3: 5725 - 5850 MHz U-NII-5 to U-NII-8 : 5925 - 7125 MHz Worldwide: 2400 - 2483.5 MHz 5150 - 5725 MHz 5925 - 7125 MHz

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