

Lysoira



**L7**

Wi-Fi 7 BE5040 Dual-Band Ceiling  
Mount Access Point



## DATASHEET

Overview	
<b>Dimensions</b>	208 mm x 208 mm x 40 mm (8.19 in. x 8.19 in. x 1.57 in.)
<b>Weight</b>	≤ 0.75 kg (1.65 lbs.)
<b>Wi-Fi Standards</b>	IEEE 802.11 a/b/g/n/ac/ax/be
<b>Spatial Streams</b>	5
<b>Coverage Area</b>	145 m <sup>2</sup> (1560.77 ft <sup>2</sup> .)
<b>Max. Client Count</b>	110+
<b>Mounting</b>	Ceiling, Wall (Mounts Included)
Hardware	
<b>Networking Interface</b>	(1) 2.5GbE RJ45 port (1) 1GbE RJ45 port
<b>Wi-Fi Protocols</b>	2.4 GHz: IEEE 802.11 b/g/n/ax/be 5 GHz: IEEE 802.11 a/n/ac/ax/be
<b>MIMO</b>	2.4 GHz: 2 x 2 MU-MIMO 5 GHz: 3 x 3 MU-MIMO
<b>Channel bandwidth</b>	2.4 GHz: 20/40 MHz 5 GHz: 20/40/80/160 MHz
<b>Throughput rate</b>	2.4 GHz: 688 Mbps 5 GHz: 4323 Mbps
<b>Antenna Gain</b>	2.4 GHz: 3.00 dBi 5 GHz: 4.00 dBi
<b>Max. Transmit Power</b>	2.4 GHz: 27 dBm 5 GHz: 29.7 dBm
<b>Power Consumption</b>	≤ 30 W
<b>Power Method</b>	PoE+ DC (12 V, 2.5A), DC Power Adapter Is Not Included
<b>Modulation</b>	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
<b>Receiver Sensitivity</b>	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)	
<b>LED</b>	1 x System LED indicator (blue)	
<b>Button</b>	1 x Factory reset	
<b>Environment</b>	Operating Temperature: 0°C to 40°C (32°F to 104°F) Storage Temperature: -40°C to +70°C (-40°F to +158°F) Operating Humidity: 5% RH to 95% RH (non-condensing) Storage Humidity: 5% RH to 95% RH (non-condensing)	
<b>Weather Resistance</b>	IP Rating: IP41 Lightning Protection/Surge Protection ±2 kV	
<b>Software</b>		
<b>Working Mode</b>	Router Mode	YES
	AP Mode	YES
<b>WLAN</b>	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	
<b>Roaming</b>	802.11v	YES
	802.11k	YES
	802.11r	YES
	Layer2 roaming	YES
	Layer3 roaming	YES



<b>Security</b>	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
<b>Routing</b>	NAT	YES
	Static IP address	YES
	DHCP Server	YES
	PPPoE Client PPPoE Dial-up	YES
<b>AP Mesh</b>	Mesh Management	YES
<b>Standalone Portal</b>	Captive Portal	YES
	Bandwidth Limiting	YES
	Data Quota	No
<b>Management and Maintenance</b>	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
<b>Platform Management Features</b>	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
<b>Compliance and Standard</b>		
<b>NDAA Complain</b>	Yes	
<b>Health</b>	UL 62368-1:2019	
<b>RF</b>	FCC 47 CFR Part 2 Subpart J FCC 47 CFR Part 15 Subpart E IC RSS-247 Issue 3	
<b>EMC</b>	FCC 47 CFR Part 15 Subpart B ICES-003 Issue 7	



<b>Certifications</b>	FCC, IC, cTUVus
<b>Operating Frequency</b>	<p>US/CA:</p> <p>2400 - 2472 MHz</p> <p>U-NII-1: 5150 - 5250 MHz</p> <p>U-NII-2A: 5250 - 5350 MHz</p> <p>U-NII-2C: 5470 - 5725 MHz</p> <p>U-NII-3: 5725 - 5850 MHz</p> <p>U-NII-5 to U-NII-8 : 5925 - 7125 MHz</p> <p>Worldwide:</p> <p>2400 - 2483.5 MHz</p> <p>5150 - 5725 MHz</p> <p>5925 - 7125 MHz</p>



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