# Access Point

## WEA524i

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| Radio Specifications | 802.11a/b/g/n/ac<br>Dual concurrent radio<br>4 × 4 MIMO, 4 spatial streams, 3 Multiuser MIMO<br>PHY data rates up to 1.7 Gbps (5 GHz)<br>802.11n high throughput (HT20/40)<br>802.11ac very high throughput (VHT20/40/80/160,80+80)<br>Dynamic frequency selection (DFS) |
| Operation Mode | Controller-based Mode: Central / Local Switching with WEC8500 Series, WEC8050 Series<br>Standalone Mode |
| Data Rates | 802.11b: 1, 2, 5.5 and 11 Mbps<br>802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps<br>802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps<br>802.11n: MCS 0 to MCS 31 (6.5 Mbps to 600 Mbps)<br>802.11ac: MCS 0 to MCS 9 (6.5 Mbps to 1,733 Mbps) |
| Frequency | 802.11b/g/n: 2.400 GHz to 2.483.5 GHz<br>802.11a/n/ac: 5.15 GHz to 5.85 GHz<br>* Available Channels are compliant with local regulations |
| Maximum Transmit Power | 26 dBm with 4 streams (20 dBm/Path)<br>*The maximum transmit power will vary by channel and according to individual country regulations |
| Security | Secure boot, Embedded Security Elementfor Secure data storage<br>iEEE 802.11i, WPA™/ WPA2™ – Enterprise/Personal, TKIP, AES<br>802.1x/EAP based Controller internal / external Radius, LDAP, Active Directory<br>CAPWAP (DTLS encryption) |
| Integrated Antenna | 2.4 GHz: 3 dBi<br>5 GHz: 5.5 dBi |
| Interfaces | Two 10/100/1000BASE-T Ethernet port: RJ-45, Link Aggregation<br>- One PoE-PD port: 802.3af/at<br>One Management console port (RJ-45)<br>USB 2.0 Type A connector |
| Dimensions | Diameter × Height: 203 mm × 45 mm (excluding protrusions) |
| Weight | 620 g |
| Environmental | Storage temperature: - 25 to + 70 ℃<br>Operating temperature: 0 to + 45 ℃<br>Operating humidity: 0 to 90 % (noncondensing) |
| Input Power Requirements | IEEE 802.3af/at PoE<br>- 802.3at: Full Capability |
| Powering Options | Local power supply: 48 V / 0.75 A |
| Power Draw | Under 20 W |
| LED | System start status, Provisioning status, Operation status, Fault status |
| Reset button | Factory Reset |
| Lock Option | Kensington Lock Slot |
| Mounting | Included Mounting Bracket for Ceiling installation |

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| | Rate | 2 G | 5 G | | | | |
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| | | HT20 | HT20 | HT40 | VHT20 | VHT40 | VHT80 |
| Receive Sensitivity | MCS 0 | -96 | -93 | -90 | | | |
| | MCS 7 | -75 | -75 | -71 | | | |
| | MCS 8 | -94 | -91 | -88 | | | |
| | MCS 15 | -73 | -71 | -68 | | | |
| | MCS 16 | -92 | -89 | -85 | | | |
| | MCS 23 | -71 | -69 | -65 | | | |
| | MCS 24 | -90 | -87 | -83 | | | |
| | MCS 31 | -69 | -68 | -65 | | | |
| | MCS0/NSS1 | | | | -93 | -91 | -89 |
| | MCS 7/NSS1 | | | | -75 | -73 | -71 |
| | MCS 8/NSS1 | | | | -71 | -69 | -67 |
| | MCS 9/NSS1 | | | | N/A | -66 | -64 |
| | MCS 0/NSS2 | | | | -91 | -89 | -87 |
| | MCS7/NSS2 | | | | -73 | -71 | -69 |
| | MCS8/NSS2 | | | | -69 | -67 | -65 |
| | MCS9/NSS2 | | | | N/A | -65 | -63 |
| | MCS0/NSS3 | | | | -89 | -87 | -85 |
| | MCS7/NSS3 | | | | -71 | -69 | -67 |
| | MCS8/NSS3 | | | | -69 | -67 | -65 |
| | MCS9/NSS3 | | | | -67 | -65 | -63 |
| | MCS0/NSS4 | | | | -87 | -85 | -83 |
| | MCS7/NSS4 | | | | -69 | -67 | -65 |
| | MCS8/NSS4 | | | | -67 | -65 | -63 |
| | MCS9/NSS4 | | | | -65 | -63 | -60 |
| | | | | 802.11b | | | |
| | 1Mbps | -99 | | | | | |
| | 11Mbps | -92 | | | | | |
| | | | | 802.11a/g | | | |
| | 6Mbps | -96 | -94 | | | | |
| | 54Mbps | -78 | -76 | | | | |

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| Compliance Standards | • Wi-Fi Alliance Certified:<br>- Wi-Fi CERTIFIED™ a, b, g, n, ac<br>- WPA™ – Enterprise, Personal<br>- WPA2™ – Enterprise, Personal<br>· EAP Type(s)<br>· EAP-TLS<br>· EAP-TTLS/MSCHAPv2<br>· PEAPv0/EAP-MSCHAPv2<br>· PEAPv1/EAP-GTC<br>· EAP-SIM<br>· EAP-AKA<br>· EAP-AKA Prime<br>· EAP-FAST<br>- Protected Management Frames<br>- WMM®<br>- WMM®-Power Save<br>- Wi-Fi CERTIFIED™ ac<br>· Rx MCS 8-9 (256-QAM)<br>· Tx STBC 2x1<br>· Rx A-MPDU of A-MSDU<br>· Tx SU beamformer<br>· Low Density Parity Check coding<br>· Tx DL MU-MIMO<br>· RTS with BW Signaling | • Safety:<br>- UL 60950-1 (USA)<br>- EN 60950-1 (Europe)<br>- IEC 60950-1<br>• EMC:<br>- EN 301 489-1/EN 301 489-3/EN 301 489-17, EN 55032, EN 55024 (Europe)<br>- FCC Part 15 Subpart B (USA)<br>- ICES-003 (CANADA)<br>• Radio approvals:<br>- EN 300 328, EN 301 893, EN 300 440, EN 62311 (Europe)<br>- FCC Part 15 Subpart C, Subpart E (USA)<br>ISED RSS-247 (CANADA) |
| Part Number | WDS-A524I/KOR<br>WDS-A524I/XAR<br>WDS-A524I/EUS | |

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