# Access Point

## WEA512i

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|---|---|
| Radio Specifications | 802.11a/b/g/n/ac<br>Dual concurrent radio<br>2 × 2MIMO, 2 spatial streams, 2 Multiuser MIMO<br>PHY data rates up to 866 Mbps (5 GHz)<br>802.11n high throughput (HT20/40)<br>802.11ac very high throughput (VHT20/40/80)<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 15 (6.5 Mbps to 300 Mbps)<br>802.11ac: MCS 0 to MCS 9 (6.5 Mbps to 866 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 | 22 dBm with 2 streams (19 dBm/Path)<br>* The maximum transmission power will vary by channel and according to individual regulations |
| Security | Secure boot, Embedded Security Element for 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: 3.5 dBi<br>5 GHz: 6.0 dBi |
| Interfaces | One 10/100/1000BASE-T Ethernet port: RJ-45, PoE<br>One Management console port: RJ-45 |
| Dimensions | Diameter × Height: 167.3 mm × 34.1 mm (excluding protrusions) |
| Weight | 270 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 PoE |
| Powering Options | Local power supply: 48 V / 0.75 A |
| Power Draw | Under 10 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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## Receive Sensitivity

| Rate | 2 G | | | 5 G | | |
|---|---|---|---|---|---|---|
| | HT20 | HT20 | HT40 | VHT20 | VHT40 | VHT80 |
| MCS 0 | -94 | -93 | -90 | | | |
| MCS 7 | -75 | -73 | -71 | | | |
| MCS 8 | -92 | -91 | -88 | | | |
| MCS 15 | -72 | -71 | -68 | | | |
| MCS 16 | -90 | -89 | -85 | | | |
| MCS 23 | -70 | -69 | -65 | | | |
| MCS 24 | -87 | -87 | -83 | | | |
| MCS 31 | -68 | -68 | -65 | | | |
| MCS0/NSS1 | | | | -93 | -90 | -87 |
| MCS 7/NSS1 | | | | -73 | -71 | -69 |
| MCS 8/NSS1 | | | | -69 | -67 | -65 |
| MCS 9/NSS1 | | | | N/A | -65 | -63 |
| MCS 0/NSS2 | | | | -91 | -88 | -85 |
| MCS7/NSS2 | | | | -71 | -68 | -67 |
| MCS8/NSS2 | | | | -67 | -66 | -64 |
| MCS9/NSS2 | | | | N/A | -63 | -60 |
| MCS0/NSS3 | | | | -89 | -85 | -82 |
| MCS7/NSS3 | | | | -69 | -65 | -65 |
| MCS8/NSS3 | | | | -65 | -63 | -61 |
| MCS9/NSS3 | | | | -63 | -61 | -58 |
| MCS0/NSS4 | | | | -87 | -83 | -80 |
| MCS7/NSS4 | | | | -68 | -65 | -62 |
| MCS8/NSS4 | | | | -64 | -61 | -58 |
| MCS9/NSS4 | | | | -62 | -59 | -56 |
| | | | 802.11b | | | |
| 1Mbps | -99 | | | | | |
| 11Mbps | -90 | | | | | |
| | | | 802.11a/g | | | |
| 6Mbps | -95 | -94 | | | | |
| 54Mbps | -77 | -76 | | | | |

## Compliance Standards

- Wi-Fi Alliance Certified :
  - Wi-Fi CERTIFIED™ a, b, g, n, ac
  - WPA™ – Enterprise, Personal
  - WPA2™ – Enterprise, Personal
  - EAP Type(s)
  - EAP-TLS
  - EAP-TTLS/MSCHAPv2
  - PEAPv0/EAP-MSCHAPv2
  - PEAPv1/EAP-GTC
  - EAP-SIM
  - EAP-AKA
  - EAP-AKA Prime
  - EAP-FAST
  - Protected Management Frames
  - WMM®
  - WMM®-Power Save
  - Wi-Fi CERTIFIED™ ac
  - 2 Spatial Streams 5 GHz
  - Rx MCS 8-9 (256-QAM)
  - Tx STBC 2x1
  - Rx A-MPDU of A-MSDU
  - Tx SU beamformer
  - Low Density Parity Check coding
  - Tx DL MU-MIMO
  - RTS with BW Signaling
- Safety :
  - UL 60950-1 (USA)
  - EN 60950-1 (Europe)
  - IEC 60950-1
- EMC :
  - EN 301 489-1/EN 301 489-3/EN 301 489-17, EN 55032, EN 55024 (Europe)
  - FCC Part 15 Subpart B (USA)
- ERadio approvals :
  - EN 300 328, EN 301 893, EN 300 440, EN 62311 (Europe)
  - FCC Part 15 Subpart C, Subpart E (USA)

## Part Number

WDS-A512I/KOR
WDS-A512I/XAR
WDS-A512I/EUS

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