



Access Point Specifications

Table D-1 lists the technical specifications for the Cisco Aironet 1552 Outdoor Mesh Access Points. For detailed specifications, refer to the *Cisco Aironet 1550 Series Outdoor Access Point* data sheet at:

http://www.cisco.com/en/US/prod/collateral/wireless/ps5679/ps11451/data_sheet_c78-641373.html

Table D-1 **Access Point Specifications**

Category	Specifications
Size	<ul style="list-style-type: none"> 1552C/1552I: 12.3 in. x 8.6 in. x 5.6 in. (31.2 cm x 22.9 cm x 14.2 cm) 1552E/EU/CU: 12.3 in. x 8.6 in. x 6.1 in. (31.2 cm x 22.9 cm x 16.3 cm)
Weight	<ul style="list-style-type: none"> 1552E/EU: 17.3 lbs (7.8 kg) 1552C/CU: 14 lbs (6.4 kg) 1552I: 14 lbs (6.4 kg) Battery backup: 1.5 lbs (0.7kg) Pole mounting bracket: 6.1 lbs (2.8 kg) Cable strand mounting bracket: 1.3 lbs (0.6 kg)
Connector	<ul style="list-style-type: none"> 1552EU/CU: Six female Type N antenna connectors (3 for 2.4-GHz radio, 3 for 5 GHz radio) 1552E: Three female Type N antenna connectors (dual band ports for 2.4 and 5 GHz radios) 1552E/EU/I: AC power connector-3-pin Remke Mini-Link 50909 connector 1552E/EU/I: Internal PoE-in connector (uplink port)-RJ-45 connector 1552E/EU: Internal PoE-out connector (downlink port)-RJ-45 connector 1552E/EU: Optional internal SFP fiber module- LC fiber connector 1552C/CU: Cable connector-Stinger connector (customer supplied)
Power sources (see Table D-2 and Table D-3 for power distribution budget)	<ul style="list-style-type: none"> 90 to 480 VAC, 50 to 60 Hz (models 1552E/EU) 110 to 277 VAC, 50 to 60 Hz (model 1552I) 40 to 90 VAC, 50 to 60 Hz, quasi-square wave, Power over Cable (POC) (models 1552C/CU) Power over Ethernet (PoE) with power injector: 56 VDC percent (models 1552E/EU) 12 VDC

Table D-1 Access Point Specifications (continued)

Category	Specifications
Operating temperature	<p>Access point and power injector</p> <p>-40 to 55°C (-40 to 131°F) plus Solar Loading</p> <p>Note Up to a 20-minute start-up time might be necessary when using a cable modem at temperatures of -20°C or less.</p>
Storage temperature	<p>Access point</p> <p>-40 to 185°F (-40 to 85°C)</p> <p>Power injector</p> <p>-58 to 185°F (-50 to 85°C)</p>
Humidity	<p>Access point</p> <p>0 to 100% condensing—access point (operating and nonoperating)</p> <p>Power injector</p> <p>10 to 90% noncondensing—power injector (operating)</p>
Data rates	<p>802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps</p> <p>802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps</p> <p>802.11n data rates (2.4 GHz and 5 GHz) - refer to Table D-5 for data rates</p>
Environmental ratings	<ul style="list-style-type: none"> • IP67 • NEMA Type 4X
Maximum elevation	<p>Operating—Sea level at 131°F (55°C)</p> <p>13,800 ft (4,206 m) at 104°F (40°C)</p> <p>Non-operating—16,000 ft (4,877 m) at -13°F (-25°C)</p>
Wind resistance	<p>Wind resistance:</p> <ul style="list-style-type: none"> • Up to 100 MPH sustained winds • Up to 165 MPH wind gusts

Table D-1 Access Point Specifications (continued)


Category	Specifications
RF output power	<p>2.4 GHz</p> <ul style="list-style-type: none"> • 802.11b (CCK) <ul style="list-style-type: none"> – 28 dBm with 2 antennas • 802.11g (non HT duplicate mode) <ul style="list-style-type: none"> – 28 dBm with 2 antennas • 802.11n (HT20) <ul style="list-style-type: none"> – 28 dBm with 2 antennas <p>5 GHz</p> <ul style="list-style-type: none"> • 802.11a <ul style="list-style-type: none"> – 28 dBm with 2 antennas • 802.11n non-HT duplicate (802.11a duplicate) mode <ul style="list-style-type: none"> – 28 dBm with 2 antennas • 802.11n (HT20) <ul style="list-style-type: none"> – 27 dBm with 2 antennas • 802.11n (HT40) <ul style="list-style-type: none"> – 27 dBm with 2 antennas <p> Note Maximum output depends on the regulatory domain in which the access point is installed. For additional information, refer to the Appendix C, “Channels and Power Levels” section.</p>

Table D-1 Access Point Specifications (continued)

Category	Specifications
Frequency Band and 20-MHz Operating Channels	<p data-bbox="378 315 511 342">-A Domain:</p> <ul data-bbox="378 357 803 567" style="list-style-type: none"> <li data-bbox="378 357 803 384">• 2.400 to 2.4835 GHz; 11 channels <li data-bbox="378 399 803 426">• 5.725 to 5.850 GHz; 5 channels <li data-bbox="378 441 803 468">• 5.500 to 5.560 GHz; 5 channels <li data-bbox="378 483 803 510">• 5.680 to 5.700 GHz; 2 channels <li data-bbox="378 525 803 552">• 5.745 to 5.825 GHz; 5 channels <p data-bbox="378 577 511 604">-C Domain:</p> <ul data-bbox="378 619 803 703" style="list-style-type: none"> <li data-bbox="378 619 803 646">• 2.400 to 2.4835 GHz; 13 channels <li data-bbox="378 661 803 688">• 5.725 to 5.850 GHz; 5 channels <p data-bbox="378 714 511 741">-E Domain:</p> <ul data-bbox="378 756 803 840" style="list-style-type: none"> <li data-bbox="378 756 803 783">• 2.401 to 2.4835 GHz; 13 channels <li data-bbox="378 798 803 825">• 5.470 to 5.725 GHz; 8 channels <p data-bbox="378 850 511 877">-K Domain:</p> <ul data-bbox="378 892 803 976" style="list-style-type: none"> <li data-bbox="378 892 803 919">• 2.400 to 2.4835 GHz; 11 channels <li data-bbox="378 934 803 961">• 5.250 to 5.825 GHz; 14 channels <p data-bbox="378 987 511 1014">-M Domain</p> <ul data-bbox="378 1029 803 1113" style="list-style-type: none"> <li data-bbox="378 1029 803 1056">• 2.400 to 2.4835 GHz; 13 channels <li data-bbox="378 1071 803 1098">• 5.470 to 5.850 GHz; 12 channels <p data-bbox="378 1123 511 1150">-N Domain:</p> <ul data-bbox="378 1165 803 1249" style="list-style-type: none"> <li data-bbox="378 1165 803 1192">• 2.400 to 2.4835 GHz; 11 channels <li data-bbox="378 1207 803 1234">• 5.725 to 5.850 GHz; 5 channels <p data-bbox="378 1260 511 1287">-Q Domain:</p> <ul data-bbox="378 1302 803 1386" style="list-style-type: none"> <li data-bbox="378 1302 803 1329">• 2.400 to 2.4835 GHz; 13 channels <li data-bbox="378 1344 803 1371">• 5.470 to 5.725 GHz; 11 channels <p data-bbox="378 1396 511 1423">-R Domain:</p> <ul data-bbox="378 1438 803 1522" style="list-style-type: none"> <li data-bbox="378 1438 803 1465">• 2.400 to 2.4835 GHz; 13 channels <li data-bbox="378 1480 803 1507">• 5.250 to 5.725 GHz; 11 channels <p data-bbox="378 1533 511 1560">-S Domain:</p> <ul data-bbox="378 1575 803 1659" style="list-style-type: none"> <li data-bbox="378 1575 803 1602">• 2.400 to 2.4835 GHz; 13 channels <li data-bbox="378 1617 803 1644">• 5.725 to 5.850 GHz; 5 channels <p data-bbox="378 1669 511 1696">-T Domain:</p> <ul data-bbox="378 1711 803 1795" style="list-style-type: none"> <li data-bbox="378 1711 803 1738">• 2.400 to 2.4835 GHz; 11 channels <li data-bbox="378 1753 803 1780">• 5.470 to 5.850 GHz; 16 channels

Table D-1 Access Point Specifications (continued)

Category	Specifications
Immunity	<ul style="list-style-type: none"> • Less than or equal to 5 mJ for 6kV/3kA @ 8/20 ms waveform • ANSI/IEEE C62.41 • EN61000 4-5 Level 4 AC Surge Immunity • EN61000 4-4 Level 4 Electrical Fast Transient Burst Immunity • EN61000 4-3 Level 4 EMC Field Immunity • EN61000 4-2 Level 4 ESD Immunity
Safety	Designed to meet: IEC 60950, 2nd Edition UL 60950, 2nd Edition CAN/CSA-C22.2 No. 60950, 2nd Edition EN 60950, 2nd Edition
Radio approvals	<ul style="list-style-type: none"> • FCC Parts 15.247, 15.407 • FCC Bulletin OET-65C • RSS-210 • RSS-102 • AS/NZS 4268.2003 • EN 300 328 • EN 301 893
EMI and susceptibility	<ul style="list-style-type: none"> • FCC Part 15.107, 15.109 • ICES-003 • EN 301 489-1, -17

Table D-2 lists the power distribution budget for 1552E access point configurations.

Table D-2 Power Distribution Budget for the AIR-CAP1552E/EU-x-K9 Access Point Configuration

Element	Nominal Power (Watts)	Absolute Max Power (Watts)
Total power budget when using DC power source	34	43
Total power budget when using AC power source	41	52
Optional components		
802.3af client connected	17	17
Fiber user as backhaul	1	1
Battery backup in charging state (1552E only)	8	8
Total Power Consumption	67	78

Table D-3 lists the power distribution budget for 1552C access point configurations.

Table D-3 Power Distribution Budget for AIR-CAP1552C/CU-x-K9 Access Point Cable Configuration

Element	Nominal Power (Watts)	Absolute Max Power (Watts)
Total power budget when using DC power source	42	50
Total power budget when using POC power source	48	58

Table D-4 lists the power distribution budget for 1552I access point configurations.

Table D-4 Power Distribution Budget for the AIR-CAP1552I-x-K9 Access Point Configuration

Element	Nominal Power (Watts)	Absolute Max Power (Watts)
Total power budget when using DC power source	34	43
Total power budget when using AC power source	39	49

Table D-5 802.11n Data Rates (2.4 GHz and 5 GHz)

MCS Index ¹	GI ² = 800ns		GI = 400ns	
	20-MHz Rate (Mbps)	40-MHz Rate (Mbps)	20-MHz Rate (Mbps)	40-MHz Rate (Mbps)
0	6.5	13.5	7.2	15
1	13	27	14.4	30
2	19.5	40.5	21.7	45
3	26	54	28.9	60
4	39	81	43.3	90
5	52	108	57.8	120
6	58.5	121.5	65	135
7	65	135	72.2	150
8	13	27	14.4	30
9	26	54	28.9	60
10	39	81	43.3	90
11	52	108	57.8	120
12	78	162	86.7	180
13	104	216	115.6	240
14	117	243	130	270
15	130	270	144.4	300

