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	• 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	• 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	• 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)	• 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	Access point and power injector -40 to 55°C (-40 to 131°F) plus Solar Loading **Note** Up to a 20-minute start-up time might be necessary when using a cable modem at temperatures of –20°C or less.
Storage temperature	Access point –40 to 185°F (–40 to 85°C) Power injector –58 to 185°F (–50 to 85°C)
Humidity	Access point 0 to 100% condensing—access point (operating and nonoperating) Power injector 10 to 90% noncondensing—power injector (operating)
Data rates	802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps
	802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps
	802.11n data rates (2.4 GHz and 5 GHz) - refer to Table D-5 for data rates
Environmental ratings	• IP67 • NEMA Type 4X
Maximum elevation	Operating—Sea level at 131°F (55°C) 13,800 ft (4,206 m) at 104°F (40°C) Non-operating—16,000 ft (4,877 m) at –13°F (–25°C)
Wind resistance	Wind resistance: • Up to 100 MPH sustained winds • Up to 165 MPH wind gusts

Table D-1 Access Point Specifications (continued)

Category	Specifications
RF output power	2.4 GHz • 802.11b (CCK) – 28 dBm with 2 antennas • 802.11g (non HT duplicate mode) – 28 dBm with 2 antennas • 802.11n (HT20) – 28 dBm with 2 antennas 5 GHz • 802.11a – 28 dBm with 2 antennas • 802.11n non-HT duplicate (802.11a duplicate) mode – 28 dBm with 2 antennas • 802.11n (HT20) – 27 dBm with 2 antennas • 802.11n (HT40) – 27 dBm with 2 antennas **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.

Table D-1 Access Point Specifications (continued)

Category	Specifications
Frequency Band and 20-MHz Operating Channels	-A Domain: • 2.400 to 2.4835 GHz; 11 channels • 5.725 to 5.850 GHz; 5 channels • 5.500 to 5.560 GHz; 5 channels • 5.680 to 5.700 GHz, 2 channels • 5.745 to 5.825 GHz, 5 channels -C Domain: • 2.400 to 2.4835 GHz; 13 channels • 5.725 to 5.850 GHz; 5 channels -E Domain: • 2.401 to 2.4835 GHz; 13 channels • 5.470 to 5.725 GHz; 8 channels -K Domain: • 2.400 to 2.4835 GHz; 11 channels • 5.250 to 5.825 GHz; 14 channels -M Domain • 2.400 to 2.4835 GHz; 13 channels • 5.470 to 5.850 GHz; 12 channels -N Domain: • 2.400 to 2.4835 GHz; 11 channels • 5.725 to 5.850 GHz; 5 channels -Q Domain: • 2.400 to 2.4835 GHz; 13 channels • 5.470 to 5.725 GHz; 11 channels -R Domain: • 2.400 to 2.4835 GHz; 13 channels • 5.250 to 5.725 GHz; 11 channels -S Domain: • 2.400 to 2.4835 GHz; 13 channels • 5.725 to 5.850 GHz; 5 channels -T Domain: • 2.400 to 2.4835 GHz; 11 channels • 5.470 to 5.850 GHz; 16 channels

Table D-1 Access Point Specifications (continued)

Category	Specifications
Immunity	• 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	• 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	• 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