



Access Point Specifications

This appendix provides technical specifications for the 1100 series access point. [Table C-1](#) lists the technical specifications for the access point.

Table C-1 **Access Point Specifications**

Category	Specifications
Physical	
Size	4.1 in. W x 1.5 in. D x 8.1 in. H 10.4 cm W x 3.8 cm D x 20.6 cm H
Status Indicators	Three indicators on the top panel: <ul style="list-style-type: none"> • Ethernet traffic • Status • Radio traffic
Connectors	End panel (left to right): RJ-45 connector for 10/100 BASE-T Ethernet connections; power connector (for plug-in AC power module).
Input Voltage	48 VDC nominal. Operational up to 60 VDC. Voltage higher than 60 VDC can damage the unit.
Input Power	With IEEE 802.11b-compliant radio: 4.75 W With IEEE 802.11g-compliant radio: 4.75 W (typical)
Operating Temperature	32 to 104°F (0 to 40°C) for the access point 32 to 104°F (0 to 40°C) for the power injector
Storage Temperature	-13 to 158°F (-25 to 70°C) for access point
Weight	10.5 oz (297g) with 2.4-GHz radio

Table C-1 Access Point Specifications (continued)

Category	Specifications
Radio	2.4-GHz Radio
Power Output	<p>Autonomous access point:</p> <p>With IEEE 802.11b-compliant radio: 100, 50, 30, 20, 5, or 1 mW (at 1, 2, 5.5, and 11Mbps)</p> <p>With IEEE 802.11g-compliant radio: 100, 50, 30, 20, 10, 5, or 1 mW (at 1, 2, 5.5 and 11 Mbps) 50, 30, 20, 10, 5, or 1 mW (at 6, 9, 12, 18, 24, 48, and 54 Mbps)</p> <p>Lightweight access point:</p> <p>With IEEE 802.11g-compliant radio: 100, 50, 25, 12, 6, 3, 2, 1 mW (at 1, 2, 5.5 and 11 Mbps) 50, 25, 12, 6, 3, 2, 1 mW (at 6, 9, 12, 18, 24, 48, and 54 Mbps)</p> <p>(Depending on the regulatory domain in which the access point is installed)</p>
Frequency	2.400 to 2.497 GHz (Depending on the regulatory domain in which the access point is installed)
Modulation	<p>IEEE 802.11b-compliant radio: Complementary Code Keying (CCK)</p> <p>IEEE 802.11g-compliant radio: Orthogonal Frequency Division Multiplex (OFDM)</p>
Data rates	<p>IEEE 802.11b-compliant radio: 1, 2, 5.5, and 11 Mbps</p> <p>IEEE 802.11g-compliant radio: 1, 2, 5.5, and 11 Mbps 6, 9, 12, 18, 24, 36, 48, and 54 Mbps</p>

Table C-1 Access Point Specifications (continued)


Category	Specifications
Typical Range	<p>Indoor (across office cubicle walls):</p> <p>IEEE 802.11b-compliant radio: (maximum output power)</p> <p>400 ft (121.9 m) at 1 Mbps 150 ft (45.7 m) at 11 Mbps</p> <p>IEEE 802.11g-compliant radio: (maximum output power)</p> <p>410 ft (125.0 m) at 1 Mbps 270 ft (82.3 m) at 2 Mbps 220 ft (67.1 m) at 5.5 Mbps 160 ft (48.8 m) at 11 Mbps</p> <p>300 ft (91.4 m) at 6 Mbps 210 ft (67.1 m) at 12 Mbps 180 ft (54.9 m) at 18 Mbps 90 ft (27.4 m) at 54 Mbps</p> <p>Outdoor:</p> <p>IEEE 802.11b-compliant radio: (maximum output power)</p> <p>2000 ft (609.6 m) at 1 Mbps 800 ft (243.8 m) at 11 Mbps</p> <p>IEEE 802.11g-compliant radio: (maximum output power)</p> <p>2000 ft (609.6 m) at 1 Mbps 1000 ft (304.8 m) at 11 Mbps</p> <p>1300 ft (396.2 m) at 6 Mbps 600 ft (182.9 m) at 18 Mbps 250 ft (76.2 m) at 54 Mbps</p> <p>Note Using 2.2dBi antennas at the access point and the client adapter.</p>
Antenna	A diversity system with two integrated 2.2 dBi dipole antennas.
Compliance	<p>The 1100 series access point provides adequate fire resistance and low smoke-producing characteristics suitable for operation in a building's environmental air space, such as above suspended ceilings, in accordance with Section 300-22(C) of the National Electrical Code (NEC) and Sections 2-128, 12-010(3) and 12-100 of the Canadian Electrical Code, Part 1, C22.1.</p> <p> Caution Only the fiber-optic power injector (AIR-PWRINJ-FIB) has been tested to UL 2043 for operation in a building's environmental air space; no other power injectors or power modules have been tested to UL 2043 and they should not be placed in a building's environmental air space, such as above suspended ceilings.</p>

Table C-1 Access Point Specifications (continued)

Category	Specifications
Safety	Designed to meet: <ul style="list-style-type: none"> • UL 1950 • CSA 22.2 No. 950-95 • IEC 60950 • EN 60950
Radio Approvals	IEEE 802.11b-compliant radio: <ul style="list-style-type: none"> FCC Part 15.247 Japan ARIB-STD-33B EN 300.328 IEEE 802.11g-compliant radio: <ul style="list-style-type: none"> FCC Parts 15.247, 15.205, 15.209 Canada RSS-210 Japan ARIB-STD-33B Japan ARIB-STD-66 Europe EN-300.328
EMI and Susceptibility	FCC Part 15.107 and 15.109 Class B ICES-003 Class B (Canada) AS/NZS 3548 Class B VCCI Class B EN 60601-1-2:2001 EN 301.489-1 EN 301.489-17
RF Exposure	OET-65C RSS-102 ANSI C95.1