



Access Point Specifications

This appendix provides technical specifications for the access point/bridge, power injector, and power module. [Table C-1](#) lists the technical specifications.

Table C-1 Access Point, Power Injector, and Power Module Specifications

Category	Access Point	Power Injector and Power Module
Size	Integrated antenna configuration: 8.00 in. W x 8.10 in. H 2.62 in. D (20.32 cm W x 20.57 cm H 6.66 cm D)	Power injector: 4.62 in. W x 4.76 in. H x 1.07 in. D (11.74 cm W x 12.09 cm H x 2.72 cm D) Power module: 3.88 in. L x 1.24 in. W x 2.17 in. D (98.5 mm L x 31.4 mm W x 55.0 mm D)
LEDs	Four LEDs on the back panel: Radio (R), Ethernet (E), Status (S), and Install (I).	One bi-color power LED on the side panel
Connectors	Bottom panel (left to right): Power injector dual-coax ports (two F-type connectors) and two reverse-TNC antenna connectors	Side panel (left to right): Two coaxial uplink F-type connectors, 48-VDC power connector, RJ-45 connector for 100BASE-T Ethernet, and a RJ-45 serial console port connector
Operating temperature	-22 to 131°F (-30 to 55°C)	Power injector: -22 to 131°F (-30 to 55°C) Power module: 32 to 104°F (0 to 40°C)
Non-operational temperature	-40 to 185°F (-40 to 85°C)	Power injector: -40 to 185°F (-40 to 85°C)) Power module: -40 to 185°F (-40 to 85°C) (10,000 ft. limit)
Humidity	0 to 90% (condensing)	Power injector: 0 to 90% (non-condensing) Power module: 0 to 95% (non-condensing)

Table C-1 Access Point, Power Injector, and Power Module Specifications (continued)

Category	Access Point	Power Injector and Power Module
Operational vibration	SAE J1455	Power injector—SAE J1455
Non-operational vibration	SAE J1455	Power injector—SAE J1455
Environmental testing compliance	The enclosure has been successfully tested and is in compliance with a NEMA 4 enclosure rating.	—
Weight	2.5 lbs (1.13 kg)	Power injector—0.8 lbs (0.36 kg) Power module—1.0 lbs (0.5 kg)
Input voltage	48 VDC (nominal) 53 VDC (maximum)	Power injector (nominal): 48 VDC (LR2 power injector) 12 to 40 VDC (LR2T power injector) Power module: 100 to 240 VAC
Power consumption	13W (typical)	—
Radio output power	For autonomous access points/bridges: 100, 50, 30, 20, 10, 5, or 1 mW (at 1, 2, 5.5, and 11 Mbps) 30, 20, 10, 5, or 1 mW (at 6, 9, 12, 18, 24, 48, and 54 Mbps) For lightweight access points: 100, 50, 25, 12, 6, 3, 2, or 1 mW (at 1, 2, 5.5, and 11 Mbps) 30, 15, 8, 4, 2, or 1 mW (at 6, 9, 12, 18, 24, 48, and 54 Mbps) (Depending on the regulatory domain in which the access point/bridge is installed)	Power injector: 18W (maximum at 48 VDC) supplied to the access point/bridge through dual-coax cables Power module: 18W (maximum at 48 VDC)
Frequency	2.400 to 2.497 GHz (Depending on the regulatory domain in which the access point/bridge is installed)	—
Modulation	IEEE 802.11b-compliant radio: Direct Sequence Spread Spectrum (DSSS) Complementary Code Keying (CCK) IEEE 802.11g-compliant radio: Orthogonal Frequency Division Multiplex (OFDM)	—
Subcarrier modulation	CCK (5.5 Mbps and 11 Mbps) BPSK (1 Mbps, 6 Mbps and 9 Mbps) QPSK (2 Mbps, 12 Mbps and 18 Mbps) 16-QAM (24 Mbps and 36 Mbps) 64-QAM (48 Mbps and 54 Mbps)	—

Table C-1 Access Point, Power Injector, and Power Module Specifications (continued)


Category	Access Point	Power Injector and Power Module
Data rates	IEEE 802.11b/g-compliant radio: 1, 2, 5.5 and 11 Mbps 6, 9, 12, 18, 24, 48, and 54 Mbps (Depending on the regulatory domain in which the access point/bridge is installed)	—
Non-overlapping channels	3	—
Antenna	Integrated antenna 13-dBi patch array Some external antennas: 5.2-dBi omnidirectional 12-dBi omnidirectional 9-dBi patch 10-dBi yagi 13.5-dBi yagi 14-dBi sector 21-dBi dish (Depending on the regulatory region)	—
Environmental air space	The access point/bridge and power injector provide 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.  Caution The power module is not tested to UL 2043 and should not be placed in a building's air-handling spaces, such as above suspended ceilings.	
Safety	UL 60950 UL 2043 CSA C22.2 No. 60950 IEC 60950 EN 60950	Power injector: UL 2043 Power injector and power module: UL 60950 CSA C22.2 No. 60950 IEC 60950 EN 60950 Note The power injector and power module must be used in an indoor environment.

Table C-1 Access Point, Power Injector, and Power Module Specifications (continued)

Category	Access Point	Power Injector and Power Module
Electromagnetic Compatibility (EMC)	FCC Part 15.107 and 15.109 Class B ICES-003 Class B (Canada) EN 55022 Class B EN 55024 EN 60601-1-2:2001 AS/NZS 3548 Class B VCCI Class B EN 301.489-1 EN 301.489-17	FCC Part 15.107 and 15.109 Class B ICES-003 Class B (Canada) EN 55022 Class B EN 55024
Radio type approvals	FCC Parts 15.247, 15.205, 15.209 FCC Bulletin OET-65C Canada RSS-102, and RSS-210 Japan ARIB-STD-33B Japan ARIB-STD-66 Europe EN 300.328	—