CHAPTER 7

Cisco Aironet 1250 Series Lightweight Access Points

This section lists the 1250 series lightweight access points (model: AIR-LAP1251) 2.4-GHz and 5-GHz (draft IEEE 802.11n version 2.0) radio channels and maximum power levels supported by the world's regulatory domains. The following topics are covered in this section:

Channels and Maximum Power Levels

Note The access point has been designed to operate with the antennas listed in the product hardware installation guide and having a maximum gain of 10 dBi for 2.4 GHz and 6 dBi for 5 GHz. Antennas not included in this list or having a higher gain are strictly prohibited for use with the access point. The required antenna impedance is 50 ohms.

Note To reduce potential radio interference to other users, the antenna type and its gain should be chosen so that the equivalent isotropically radiated power (e.i.r.p.) is not more than required for successful communication.

2.4 GHz Band (IEEE 802.11n Version 2.0)

An improper combination of power level and antenna gain can result in equivalent isotropic radiated power (EIRP) above the amount allowed per regulatory domain. Table 7-1 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –A regulatory domain for a 2.4-GHz radio.

Table 7-1 802.11 b/g/n 2.4-GHz Maximum Transmit Power

Channel	Frequency (MhZ)	North America		ETSI		Japan	
		B	G	B	G	B	G
1	2412	17	17	17	17	17	17
2	2417	17	17	17	17	17	17
3	2422	17	17	17	17	17	17
4	2427	17	17	17	17	17	17
5	2432	17	17	17	17	17	17
6	2437	17	17	17	17	17	17
7	2442	17	17	17	17	17	17
8	2447	17	17	17	17	17	17
9	2452	17	17	17	17	17	17
10	2457	17	17	17	17	17	17
11	2462	17	17	17	17	17	17
12	2467			14	14	17	17
13	2472			14	14	14	17
14	2484					14	17

2.4 GHz Band (Draft IEEE 802.11n Version 2.0)

Table 7-2 Channels and Maximum Conducted Power in the –A Regulatory Domain with up to 10-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –A Regulatory Domain for the 2.4-GHz Radio with up to 10-dBi Antennas														
	Center Channel		802.11b Single Antenna 1 to 11 Mbps			802.11g Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			HT-40 MHz Dual Antennas M0 to M15[1]		
Freq (MHz)	20 MHz	40 MHz	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power
2412	1	3	20	OFF	20	17	OFF	17	17	17	20	14	14	17
2417	2	4	20	OFF	20	17	OFF	17	17	17	20	14	14	17
2422	3	5	20	OFF	20	17	OFF	17	17	17	20	14	14	17
2427	4	6	20	OFF	20	17	OFF	17	17	17	20	14	14	17
2432	5	3, 7	20	OFF	20	17	OFF	17	17	17	20	14	14	17
2437	6	4, 8	23	OFF	23	20	OFF	20	17	17	20	17	17	20
2442	7	5, 9	20	OFF	20	17	OFF	17	17	17	20	14	14	17
2447	8	6, 10	20	OFF	20	17	OFF	17	17	17	20	14	14	17
2452	9	7, 11	20	OFF	20	17	OFF	17	17	17	20	14	14	17
2457	10	8	20	OFF	20	17	OFF	17	17	17	20	14	14	17
2462	11	9	20	OFF	20	17	OFF	17	17	17	20	14	14	17
2467	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2472	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2484	–	–	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-3 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –E regulatory domain for a 2.4-GHz radio with up to 3-dBi antennas.

Table 7-3 Channels and Maximum Conducted Power for –E Regulatory Domain with up to 3-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –E Regulatory Domain for the 2.4-GHz Radio with up to 3-dBi Anetnnas														
Freq (MHz)	Center Channel		802.11b Single Antenna 1 to 11 Mbps			802.11g Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			HT-40 MHz Dual Antennas M0 to M15[1]		
	20 MHz	40 MHz	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power
2412	1	3	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2417	2	4	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2422	3	5	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2427	4	6	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2432	5	3, 7	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2437	6	4, 8	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2442	7	5, 9	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2447	8	6, 10	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2452	9	7, 11	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2457	10	8	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2462	11	9	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2467	12	10	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2472	13	11	17	OFF	17	17	OFF	17	14	14	17	14	14	17
2484	–	–	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-4 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –E regulatory domain for a 2.4-GHz radio with up to 6-dBi antennas.

Table 7-4 Channels and Maximum Conducted Power in the –E Regulatory Domain with up to 6-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –E Regulatory Domain for the 2.4-GHz Radio with up to 6-dBi Antennas

	Center Channel		802.11b Single Antenna 1 to 11 Mbps			802.11g Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			HT-40 MHz Dual Antennas M0 to M15[1]		
Freq (MHz)	20 MHz	40 MHz	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power
2412	1	3	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2417	2	4	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2422	3	5	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2427	4	6	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2432	5	3, 7	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2437	6	4, 8	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2442	7	5, 9	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2447	8	6, 10	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2452	9	7, 11	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2457	10	8	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2462	11	9	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2467	12	10	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2472	13	11	14	OFF	14	14	OFF	14	11	11	14	11	11	14
2484	–	–	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-5 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –E regulatory domain for a 2.4-GHz radio with up to 9-dBi antennas.

Table 7-5 Channels and Maximum Conducted Power in the –E Regulatory Domain with up to 9-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –E Regulatory Domain for the 2.4-GHz Radio with up to 9-dBi Antennas														
Freq (MHz)	Center Channel		802.11b Single Antenna 1 to 11 Mbps			802.11g Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			HT-40 MHz Dual Antennas M0 to M15[1]		
	20 MHz	40 MHz	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power
2412	1	3	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2417	2	4	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2422	3	5	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2427	4	6	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2432	5	3, 7	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2437	6	4, 8	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2442	7	5, 9	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2447	8	6, 10	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2452	9	7, 11	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2457	10	8	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2462	11	9	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2467	12	10	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2472	13	11	11	OFF	11	11	OFF	11	8	8	11	8	8	11
2484	–	–	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-6 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –E regulatory domain for a 2.4-GHz radio with up to 10-dBi antennas.

Table 7-6 Channels and Maximum Conducted Power in the –E Regulatory Domain with up to 10-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –E Regulatory Domain for the 2.4-GHz Radio with up to 10-dBi Anetnnas

Freq (MHz)	Center Channel		802.11b Single Antenna 1 to 11 Mbps			802.11g Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			HT-40 MHz Dual Antennas M0 to M15[1]		
	20 MHz	40 MHz	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power
2412	1	3	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2417	2	4	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2422	3	5	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2427	4	6	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2432	5	3, 7	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2437	6	4, 8	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2442	7	5, 9	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2447	8	6, 10	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2452	9	7, 11	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2457	10	8	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2462	11	9	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2467	12	10	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2472	13	11	8	OFF	8	8	OFF	8	5	5	8	5	5	8
2484	–	–	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-7 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –P regulatory domain for a 2.4-GHz radio with up to 10-dBi antennas.

Table 7-7 Channels and Maximum Conducted Power in the –P Regulatory Domain with up to 10-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –P Regulatory Domain for the 2.4 GHz Radio with up to 10 dBi Antennas														
	Center Channel		802.11b Single Antenna 1 to 11 Mbps			802.11g Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			HT-40 MHz Dual Antennas M0 to M15[1]		
Freq (MHz)	20 MHz	40 MHz	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power
2412	1	3	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2417	2	4	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2422	3	5	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2427	4	6	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2432	5	3, 7	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2437	6	4, 8	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2442	7	5, 9	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2447	8	6, 10	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2452	9	7, 11	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2457	10	8	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2462	11	9	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2467	12	10	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2472	13	11	14	OFF	14	17	OFF	17	14	14	17	14	14	17
2484	14	–	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

5 GHz Band (Draft IEEE 802.11n Version 2.0)

An improper combination of power level and antenna gain can result in equivalent isotropic radiated power (EIRP) above the amount allowed per regulatory domain.

Table 7-8 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –A regulatory domain for a 5-GHz radio with up to 6-dBi antennas.

Table 7-8 Channels and Maximum Conducted Power in the –A Regulatory Domain with up to 6-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –A Regulatory Domain for the 5-GHz Radio with up to 6-dBi Antennas													
		802.11a Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			Duplicate (2x20 MHz) Single Antennas 6 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	–	–	Tx A	Tx B	Total Power
5150-5250 MHz													
36	5180	14	OFF	14	11	11	14	11	–	–	11	11	14
40	5200	14	OFF	14	11	11	14	11	–	–	11	11	14
44	5220	14	OFF	14	11	11	14	11	–	–	11	11	14
48	5240	14	OFF	14	11	11	14	11	–	–	11	11	14
5250 to 5350 MHz													
52	5260	17	OFF	17	17	17	20	17	–	–	17	17	20
56	5280	17	OFF	17	17	17	20	17	–	–	17	17	20
60	5300	17	OFF	17	17	17	20	11	–	–	11	11	14
64	5320	17	OFF	17	17	17	20	11	–	–	11	11	14
5470 to 5725 MHz													
100	5500	17	OFF	17	17	17	20	14	–	–	14	14	17
104	5520	17	OFF	17	17	17	20	14	–	–	14	14	17
108	5540	17	OFF	17	17	17	20	17	–	–	17	17	20
112	5560	17	OFF	17	17	17	20	17	–	–	17	17	20
116	5580	17	OFF	17	17	17	20	–	–	–	–	–	–
120	5600	–	–	–	–	–	–	–	–	–	–	–	–
124	5620	–	–	–	–	–	–	–	–	–	–	–	–
128	5640	–	–	–	–	–	–	–	–	–	–	–	–
132	5660	17	OFF	17	17	17	20	17	–	–	17	17	20
136	5680	17	OFF	17	17	17	20	17	–	–	17	17	20
140	5700	17	OFF	17	17	17	20	–	–	–	–	–	–
5725 to 5850 MHz													
149	5745	17	OFF	17	17	17	20	17	–	–	17	17	20
153	5765	17	OFF	17	17	17	20	17	–	–	17	17	20
157	5785	17	OFF	17	17	17	20	17	–	–	17	17	20
161	5805	17	OFF	17	17	17	20	17	–	–	17	17	20
165	5825	17	OFF	17	17	17	20	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-9 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –C regulatory domain for a 5-GHz radio with up to 6-dBi antennas.

Table 7-9 Channels and Maximum Conducted Power in the –C Regulatory Domain with up to 6-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –C Regulatory Domain for a 5-GHz Radio with up to 6-dBi Antennas													
		802.11a Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			Duplicate (2x20 MHz) Dual Antennas 6 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	–	–	Tx A	Tx B	Total Power
UNII-1 (5150-5250 MHz)													
36	5180	–	–	–	–	–	–	–	–	–	–	–	–
40	5200	–	–	–	–	–	–	–	–	–	–	–	–
44	5220	–	–	–	–	–	–	–	–	–	–	–	–
48	5240	–	–	–	–	–	–	–	–	–	–	–	–
5250 to 5350 MHz													
52	5260	–	–	–	–	–	–	–	–	–	–	–	–
56	5280	–	–	–	–	–	–	–	–	–	–	–	–
60	5300	–	–	–	–	–	–	–	–	–	–	–	–
64	5320	–	–	–	–	–	–	–	–	–	–	–	–
5470 to 5725 MHz													
100	5500	–	–	–	–	–	–	–	–	–	–	–	–
104	5520	–	–	–	–	–	–	–	–	–	–	–	–
108	5540	–	–	–	–	–	–	–	–	–	–	–	–
112	5560	–	–	–	–	–	–	–	–	–	–	–	–
116	5580	–	–	–	–	–	–	–	–	–	–	–	–
120	5600	–	–	–	–	–	–	–	–	–	–	–	–
124	5620	–	–	–	–	–	–	–	–	–	–	–	–
128	5640	–	–	–	–	–	–	–	–	–	–	–	–
132	5660	–	–	–	–	–	–	–	–	–	–	–	–
136	5680	–	–	–	–	–	–	–	–	–	–	–	–
140	5700	–	–	–	–	–	–	–	–	–	–	–	–
5725 to 5850 MHz													
149	5745	17	OFF	17	17	17	20	17	–	–	17	17	20
153	5765	17	OFF	17	17	17	20	17	–	–	17	17	20
157	5785	17	OFF	17	17	17	20	17	–	–	17	17	20
161	5805	17	OFF	17	17	17	20	17	–	–	17	17	20
165	5825	17	OFF	17	17	17	20	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-10 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –E regulatory domain for a 5-GHz radio with up to 6-dBi antennas.

Table 7-10 Channels and Maximum Conducted Power in the –E Regulatory Domain with up to 6-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –E Regulatory Domain for the 5-GHz Radio with up to 6-dBi Antennas													
		802.11a Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			Duplicate (2x20 MHz) Dual Antennas 6 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	–	–	Tx A	Tx B	Total Power
UNII-1 (5150-5250 MHz)													
36	5180	17	OFF	17	14	14	17	14	–	–	14	14	17
40	5200	17	OFF	17	14	14	17	14	–	–	14	14	17
44	5220	17	OFF	17	14	14	17	14	–	–	14	14	17
48	5240	17	OFF	17	14	14	17	14	–	–	14	14	17
5250 to 5350 MHz													
52	5260	17	OFF	17	14	14	17	14	–	–	14	14	17
56	5280	17	OFF	17	14	14	17	14	–	–	14	14	17
60	5300	17	OFF	17	14	14	17	14	–	–	14	14	17
64	5320	17	OFF	17	14	14	17	14	–	–	14	14	17
5470 to 5725 MHz													
100	5500	17	OFF	17	17	17	20	17	–	–	17	17	20
104	5520	17	OFF	17	17	17	20	17	–	–	17	17	20
108	5540	17	OFF	17	17	17	20	17	–	–	17	17	20
112	5560	17	OFF	17	17	17	20	17	–	–	17	17	20
116	5580	17	OFF	17	17	17	20	17	–	–	17	17	20
120	5600	17	OFF	17	17	17	20	17	–	–	17	17	20
124	5620	17	OFF	17	17	17	20	17	–	–	17	17	20
128	5640	17	OFF	17	17	17	20	17	–	–	17	17	20
132	5660	17	OFF	17	17	17	20	17	–	–	17	17	20
136	5680	17	OFF	17	17	17	20	17	–	–	17	17	20
140	5700	17	OFF	17	17	17	20		–	–			
5725 to 5850 MHz													
149	5745	–	–	–	–	–	–	–	–	–	–	–	–
153	5765	–	–	–	–	–	–	–	–	–	–	–	–
157	5785	–	–	–	–	–	–	–	–	–	–	–	–
161	5805	–	–	–	–	–	–	–	–	–	–	–	–
165	5825	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-11 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –I regulatory domain for a 5-GHz radio with up to 6-dBi antenna.s

Table 7-11 Channels and Maximum Conducted Power in the –I Regulatory Domain with up to 6-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –I Regulatory Domain for a 5-GHz Radio with up to 6-dBi Antennas													
		802.11a Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			Duplicate (2x20 MHz) Dual Antennas 6 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	–	–	Tx A	Tx B	Total Power
UNII-1 (5150-5250 MHz)													
36	5180	17	OFF	17	14	14	17	14	–	–	14	14	17
40	5200	17	OFF	17	14	14	17	14	–	–	14	14	17
44	5220	17	OFF	17	14	14	17	14	–	–	14	14	17
48	5240	17	OFF	17	14	14	17	14	–	–	14	14	17
5250 to 5350 MHz													
52	5260	17	OFF	17	14	14	17	14	–	–	14	14	17
56	5280	17	OFF	17	14	14	17	14	–	–	14	14	17
60	5300	17	OFF	17	14	14	17	14	–	–	14	14	17
64	5320	17	OFF	17	14	14	17	14	–	–	14	14	17
5470 to 5725 MHz													
100	5500	–	–	–	–	–	–	–	–	–	–	–	–
104	5520	–	–	–	–	–	–	–	–	–	–	–	–
108	5540	–	–	–	–	–	–	–	–	–	–	–	–
112	5560	–	–	–	–	–	–	–	–	–	–	–	–
116	5580	–	–	–	–	–	–	–	–	–	–	–	–
120	5600	–	–	–	–	–	–	–	–	–	–	–	–
124	5620	–	–	–	–	–	–	–	–	–	–	–	–
128	5640	–	–	–	–	–	–	–	–	–	–	–	–
132	5660	–	–	–	–	–	–	–	–	–	–	–	–
136	5680	–	–	–	–	–	–	–	–	–	–	–	–
140	5700	–	–	–	–	–	–	–	–	–	–	–	–
5725 to 5850 MHz													
149	5745	–	–	–	–	–	–	–	–	–	–	–	–
153	5765	–	–	–	–	–	–	–	–	–	–	–	–
157	5785	–	–	–	–	–	–	–	–	–	–	–	–
161	5805	–	–	–	–	–	–	–	–	–	–	–	–
165	5825	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-12 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –K regulatory domain for a 5-GHz radio with up to 6-dBi antennas.

Table 7-12 Channels and Maximum Conducted Power in the –K Regulatory Domain with up to 6-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –K Regulatory Domain for a 5-GHz Radio with up to 6-dBi Antennas													
		802.11a Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			Duplicate (2x20 MHz) Dual Antennas 6 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	–	–	Tx A	Tx B	Total Power
UNII-1 (5150-5250 MHz)													
36	5180	14	OFF	14	8	8	11	8	–	–	8	8	11
40	5200	14	OFF	14	8	8	11	8	–	–	8	8	11
44	5220	14	OFF	14	8	8	11	8	–	–	8	8	11
48	5240	14	OFF	14	8	8	11	8	–	–	8	8	11
5250 to 5350 MHz													
52	5260	17	OFF	17	17	17	20	17	–	–	17	17	20
56	5280	17	OFF	17	17	17	20	17	–	–	17	17	20
60	5300	17	OFF	17	17	17	20	17	–	–	17	17	20
64	5320	17	OFF	17	17	17	20	17	–	–	17	17	20
5470 to 5725 MHz													
100	5500	17	OFF	17	17	17	20	17	–	–	17	17	20
104	5520	17	OFF	17	17	17	20	17	–	–	17	17	20
108	5540	17	OFF	17	17	17	20	17	–	–	17	17	20
112	5560	17	OFF	17	17	17	20	17	–	–	17	17	20
116	5580	17	OFF	17	17	17	20	17	–	–	17	17	20
120	5600	17	OFF	17	17	17	20	17	–	–	17	17	20
124	5620	17	OFF	17	17	17	20	17	–	–	–	–	–
128	5640	–	–	–	–	–	–	–	–	–	–	–	–
132	5660	–	–	–	–	–	–	–	–	–	–	–	–
136	5680	–	–	–	–	–	–	–	–	–	–	–	–
140	5700	–	–	–	–	–	–	–	–	–	–	–	–
5725 to 5850 MHz													
149	5745	17	OFF	17	17	17	20	17	–	–	17	17	20
153	5765	17	OFF	17	17	17	20	17	–	–	17	17	20
157	5785	17	OFF	17	17	17	20	17	–	–	17	17	20
161	5805	17	OFF	17	17	17	20	17	–	–	17	17	20
165	5825	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-13 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –N regulatory domain for a 5-GHz radio with up to 6-dBi antennas.

Table 7-13 Channels and Maximum Conducted Power in the –N Regulatory Domain with up to 6-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –N Regulatory Domain for a 5-GHz Radio with up to 6-dBi Antennas													
		802.11a Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			Duplicate (2x20 MHz) Dual Antennas 6 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	–	–	Tx A	Tx B	Total Power
UNII-1 (5150-5250 MHz)													
36	5180	14	OFF	14	11	11	14	11	–	–	11	11	14
40	5200	14	OFF	14	11	11	14	11	–	–	11	11	14
44	5220	14	OFF	14	11	11	14	11	–	–	11	11	14
48	5240	14	OFF	14	11	11	14	11	–	–	11	11	14
5250 to 5350 MHz													
52	5260	17	OFF	17	14	14	17	14	–	–	14	14	17
56	5280	17	OFF	17	14	14	17	14	–	–	14	14	17
60	5300	17	OFF	17	14	14	17	11	–	–	11	11	14
64	5320	11	OFF	11	14	14	17	11	–	–	11	11	14
5470 to 5725 MHz													
100	5500	–	–	–	–	–	–	–	–	–	–	–	–
104	5520	–	–	–	–	–	–	–	–	–	–	–	–
108	5540	–	–	–	–	–	–	–	–	–	–	–	–
112	5560	–	–	–	–	–	–	–	–	–	–	–	–
116	5580	–	–	–	–	–	–	–	–	–	–	–	–
120	5600	–	–	–	–	–	–	–	–	–	–	–	–
124	5620	–	–	–	–	–	–	–	–	–	–	–	–
128	5640	–	–	–	–	–	–	–	–	–	–	–	–
132	5660	–	–	–	–	–	–	–	–	–	–	–	–
136	5680	–	–	–	–	–	–	–	–	–	–	–	–
140	5700	–	–	–	–	–	–	–	–	–	–	–	–
5725 to 5850 MHz													
149	5745	17	OFF	17	17	17	20	17	–	–	17	17	20
153	5765	17	OFF	17	17	17	20	17	–	–	17	17	20
157	5785	17	OFF	17	17	17	20	17	–	–	17	17	20
161	5805	17	OFF	17	17	17	20	17	–	–	17	17	20
165	5825	17	OFF	17	17	17	20	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-14 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –P regulatory domain for a 5-GHz radio with up to 6-dBi antennas.

Table 7-14 Channels and Maximum Conducted Power in the –P Regulatory Domain with up to 6-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –P Regulatory Domain for the 5-GHz Radio with up to 6-dBi Antennas													
		802.11a Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			Duplicate (2x20 MHz) Dual Antennas 6 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	–	–	Tx A	Tx B	Total Power
UNII-1 (5150-5250 MHz)													
36	5180	14	OFF	14	11	11	14	11	–	–	11	11	14
40	5200	14	OFF	14	11	11	14	11	–	–	11	11	14
44	5220	14	OFF	14	11	11	14	11	–	–	11	11	14
48	5240	14	OFF	14	11	11	14	11	–	–	11	11	14
5250 to 5350 MHz													
52	5260	14	OFF	14	11	11	14	11	–	–	11	11	14
56	5280	14	OFF	14	11	11	14	11	–	–	11	11	14
60	5300	14	OFF	14	11	11	14	11	–	–	11	11	14
64	5320	14	OFF	14	11	11	14	11	–	–	11	11	14
5470 to 5725 MHz													
100	5500	–	–	–	–	–	–	–	–	–	–	–	–
104	5520	–	–	–	–	–	–	–	–	–	–	–	–
108	5540	–	–	–	–	–	–	–	–	–	–	–	–
112	5560	–	–	–	–	–	–	–	–	–	–	–	–
116	5580	–	–	–	–	–	–	–	–	–	–	–	–
120	5600	–	–	–	–	–	–	–	–	–	–	–	–
124	5620	–	–	–	–	–	–	–	–	–	–	–	–
128	5640	–	–	–	–	–	–	–	–	–	–	–	–
132	5660	–	–	–	–	–	–	–	–	–	–	–	–
136	5680	–	–	–	–	–	–	–	–	–	–	–	–
140	5700	–	–	–	–	–	–	–	–	–	–	–	–
5725 to 5850 MHz													
149	5745	–	–	–	–	–	–	–	–	–	–	–	–
153	5765	–	–	–	–	–	–	–	–	–	–	–	–
157	5785	–	–	–	–	–	–	–	–	–	–	–	–
161	5805	–	–	–	–	–	–	–	–	–	–	–	–
165	5825	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-15 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –R regulatory domain for a 5-GHz radio with up to 4-dBi antennas.

Table 7-15 Channels and Maximum Conducted Power in the –R Regulatory Domain with up to 4-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –R Regulatory Domain for the 5-GHz Radio with up to 4-dBi Antennas													
		Non HT-20 and HT-20 MHz Single Antenna 6 to 54 Mbps			Non HT-20 and HT-20 MHz Dual Antennas M0 to M15[1]			Non HT-40 and HT-40 Single Antenna 6 to 54 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power
UNII-1 (5150-5250 MHz)													
36	5180	16	OFF	16	13	13	16	16	OFF	16	13	13	16
40	5200	16	OFF	16	13	13	16	16	OFF	16	13	13	16
44	5220	16	OFF	16	13	13	16	16	OFF	16	13	13	16
48	5240	16	OFF	16	13	13	16	16	OFF	16	13	13	16
5250 to 5350 MHz													
52	5260	16	OFF	16	13	13	16	16	OFF	16	13	13	16
56	5280	16	OFF	16	13	13	16	16	OFF	16	13	13	16
60	5300	16	OFF	16	13	13	16	16	OFF	16	13	13	16
64	5320	16	OFF	16	13	13	16	16	OFF	16	13	13	16
5470 to 5725 MHz													
100	5500	–	–	–	–	–	–	–	–	–	–	–	–
104	5520	–	–	–	–	–	–	–	–	–	–	–	–
108	5540	–	–	–	–	–	–	–	–	–	–	–	–
112	5560	–	–	–	–	–	–	–	–	–	–	–	–
116	5580	–	–	–	–	–	–	–	–	–	–	–	–
120	5600	–	–	–	–	–	–	–	–	–	–	–	–
124	5620	–	–	–	–	–	–	–	–	–	–	–	–
128	5640	–	–	–	–	–	–	–	–	–	–	–	–
132	5660	16	OFF	16	13	13	16	16	OFF	16	13	13	16
136	5680	16	OFF	16	13	13	16	16	OFF	16	13	13	16
140	5700	16	OFF	16	13	13	16	–	–	–	–	–	–
5725 to 5850 MHz													
149	5745	16	OFF	16	13	13	16	16	OFF	16	13	13	16
153	5765	16	OFF	16	13	13	16	16	OFF	16	13	13	16
157	5785	16	OFF	16	13	13	16	16	OFF	16	13	13	16
161	5805	16	OFF	16	13	13	16	16	OFF	16	13	13	16
165	5825	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-16 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –R regulatory domain for a 5-GHz radio with up to 5-dBi antennas.

Table 7-16 Channels and Maximum Conducted Power in the –R Regulatory Domain with up to 5-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –R Regulatory Domain for the 5-GHz Radio with up to 5-dBi Antennas													
		Non HT-20 and HT-20 MHz Single Antenna 6 to 54 Mbps			Non HT-20 and HT-20 MHz Dual Antennas M0 to M15[1]			Non HT-40 and HT-40 Single Antenna 6 to 54 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power
UNII-1 (5150-5250 MHz)													
36	5180	15	OFF	15	12	12	15	15	OFF	15	12	12	15
40	5200	15	OFF	15	12	12	15	15	OFF	15	12	12	15
44	5220	15	OFF	15	12	12	15	15	OFF	15	12	12	15
48	5240	15	OFF	15	12	12	15	15	OFF	15	12	12	15
5250 to 5350 MHz													
52	5260	15	OFF	15	12	12	15	15	OFF	15	12	12	15
56	5280	15	OFF	15	12	12	15	15	OFF	15	12	12	15
60	5300	15	OFF	15	12	12	15	15	OFF	15	12	12	15
64	5320	15	OFF	15	12	12	15	15	OFF	15	12	12	15
5470 to 5725 MHz													
100	5500	–	–	–	–	–	–	–	–	–	–	–	–
104	5520	–	–	–	–	–	–	–	–	–	–	–	–
108	5540	–	–	–	–	–	–	–	–	–	–	–	–
112	5560	–	–	–	–	–	–	–	–	–	–	–	–
116	5580	–	–	–	–	–	–	–	–	–	–	–	–
120	5600	–	–	–	–	–	–	–	–	–	–	–	–
124	5620	–	–	–	–	–	–	–	–	–	–	–	–
128	5640	–	–	–	–	–	–	–	–	–	–	–	–
132	5660	15	OFF	15	12	12	15	15	OFF	15	12	12	15
136	5680	15	OFF	15	12	12	15	15	OFF	15	12	12	15
140	5700	15	OFF	15	12	12	15	–	–	–	–	–	–
5725 to 5850 MHz													
149	5745	15	OFF	15	12	12	15	15	OFF	15	12	12	15
153	5765	15	OFF	15	12	12	15	15	OFF	15	12	12	15
157	5785	15	OFF	15	12	12	15	15	OFF	15	12	12	15
161	5805	15	OFF	15	12	12	15	15	OFF	15	12	12	15
165	5825	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-17 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –R regulatory domain for a 5-GHz radio with up to 6-dBi antennas.

Table 7-17 Channels and Maximum Conducted Power in the –R Regulatory Domain with up to 6-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –R Regulatory Domain for the 5-GHz Radio with up to 6-dBi Antennas													
		Non HT-20 and HT-20 MHz Single Antenna 6 to 54 Mbps			Non HT-20 and HT-20 MHz Dual Antennas M0 to M15[1]			Non HT-40 and HT-40 Single Antenna 6 to 54 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power
UNII-1 (5150-5250 MHz)													
36	5180	14	OFF	14	11	11	14	14	OFF	14	11	11	14
40	5200	14	OFF	14	11	11	14	14	OFF	14	11	11	14
44	5220	14	OFF	14	11	11	14	14	OFF	14	11	11	14
48	5240	14	OFF	14	11	11	14	14	OFF	14	11	11	14
5250 to 5350 MHz													
52	5260	14	OFF	14	11	11	14	14	OFF	14	11	11	14
56	5280	14	OFF	14	11	11	14	14	OFF	14	11	11	14
60	5300	14	OFF	14	11	11	14	14	OFF	14	11	11	14
64	5320	14	OFF	14	11	11	14	14	OFF	14	11	11	14
5470 to 5725 MHz													
100	5500	–	–	–	–	–	–	–	–	–	–	–	–
104	5520	–	–	–	–	–	–	–	–	–	–	–	–
108	5540	–	–	–	–	–	–	–	–	–	–	–	–
112	5560	–	–	–	–	–	–	–	–	–	–	–	–
116	5580	–	–	–	–	–	–	–	–	–	–	–	–
120	5600	–	–	–	–	–	–	–	–	–	–	–	–
124	5620	–	–	–	–	–	–	–	–	–	–	–	–
128	5640	–	–	–	–	–	–	–	–	–	–	–	–
132	5660	14	OFF	14	11	11	14	14	OFF	14	11	11	14
136	5680	14	OFF	14	11	11	14	14	OFF	14	11	11	14
140	5700	14	OFF	14	11	11	14	–	–	–	–	–	–
5725 to 5850 MHz													
149	5745	14	OFF	14	11	11	14	14	OFF	14	11	11	14
153	5765	14	OFF	14	11	11	14	14	OFF	14	11	11	14
157	5785	14	OFF	14	11	11	14	14	OFF	14	11	11	14
161	5805	14	OFF	14	11	11	14	14	OFF	14	11	11	14
165	5825	–	–	–	–	–	–	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-18 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –S regulatory domain for a 5-GHz radio with up to 6-dBi antennas.

Table 7-18 Channels and Maximum Conducted Power in the –S Regulatory Domain with up to 6-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –S Regulatory Domain for a 5-GHz Radio with up to 6-dBi Antennas													
		802.11a Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			Duplicate (2x20 MHz) Dual Antennas 6 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	–	–	Tx A	Tx B	Total Power
UNII-1 (5150-5250 MHz)													
36	5180	17	OFF	17	14	14	17	14	–	–	14	14	17
40	5200	17	OFF	17	14	14	17	14	–	–	14	14	17
44	5220	17	OFF	17	14	14	17	14	–	–	14	14	17
48	5240	17	OFF	17	14	14	17	14	–	–	14	14	17
5250 to 5350 MHz													
52	5260	17	OFF	17	14	14	17	14	–	–	14	14	17
56	5280	17	OFF	17	14	14	17	14	–	–	14	14	17
60	5300	17	OFF	17	14	14	17	14	–	–	14	14	17
64	5320	17	OFF	17	14	14	17	14	–	–	14	14	17
5470 to 5725 MHz													
100	5500	–	–	–	–	–	–	–	–	–	–	–	–
104	5520	–	–	–	–	–	–	–	–	–	–	–	–
108	5540	–	–	–	–	–	–	–	–	–	–	–	–
112	5560	–	–	–	–	–	–	–	–	–	–	–	–
116	5580	–	–	–	–	–	–	–	–	–	–	–	–
120	5600	–	–	–	–	–	–	–	–	–	–	–	–
124	5620	–	–	–	–	–	–	–	–	–	–	–	–
128	5640	–	–	–	–	–	–	–	–	–	–	–	–
132	5660	–	–	–	–	–	–	–	–	–	–	–	–
136	5680	–	–	–	–	–	–	–	–	–	–	–	–
140	5700	–	–	–	–	–	–	–	–	–	–	–	–
5725 to 5850 MHz													
149	5745	17	OFF	17	17	17	20	17	–	–	17	17	20
153	5765	17	OFF	17	17	17	20	17	–	–	17	17	20
157	5785	17	OFF	17	17	17	20	17	–	–	17	17	20
161	5805	17	OFF	17	17	17	20	17	–	–	17	17	20
165	5825	17	OFF	17	17	17	20	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Table 7-19 indicates the channel identifiers, channel center frequencies, and maximum power levels for each channel allowed by the –T regulatory domain for a 5-GHz radio with up to 6-dBi antennas.

Table 7-19 Channels and Maximum Conducted Power in the –T Regulatory Domain with up to 6-dBi Antennas

Maximum Conducted Power Levels (dBm) in the –T Regulatory Domain for a 5-GHz Radio with up to 6-dBi Antennas													
		802.11a Single Antenna 6 to 54 Mbps			HT-20 MHz Dual Antennas M0 to M15[1]			Duplicate (2x20 MHz) Dual Antennas 6 Mbps			HT-40 MHz Dual Antennas M0 to M15[1]		
Channel ID	Freq (MHz)	Tx A	Tx B	Total Power	Tx A	Tx B	Total Power	Tx A	–	–	Tx A	Tx B	Total Power
UNII-1 (5150-5250 MHz)													
36	5180	–	–	–	–	–	–	–	–	–	–	–	–
40	5200	–	–	–	–	–	–	–	–	–	–	–	–
44	5220	–	–	–	–	–	–	–	–	–	–	–	–
48	5240	–	–	–	–	–	–	–	–	–	–	–	–
5250 to 5350 MHz													
52	5260	–	–	–	–	–	–	–	–	–	–	–	–
56	5280	14	OFF	14	11	11	14	–	–	–	–	–	–
60	5300	14	OFF	14	11	11	14	8	–	–	11	11	14
64	5320	14	OFF	14	11	11	14	8	–	–	11	11	14
5470 to 5725 MHz													
100	5500	17	OFF	17	17	17	20	14	–	–	17	17	20
104	5520	17	OFF	17	17	17	20	14	–	–	17	17	20
108	5540	17	OFF	17	17	17	20	14	–	–	17	17	20
112	5560	17	OFF	17	17	17	20	14	–	–	17	17	20
116	5580	17	OFF	17	17	17	20	14	–	–	17	17	20
120	5600	17	OFF	17	17	17	20	14	–	–	17	17	20
124	5620	17	OFF	17	17	17	20	14	–	–	17	17	20
128	5640	17	OFF	17	17	17	20	14	–	–	17	17	20
132	5660	17	OFF	17	17	17	20	14	–	–	17	17	20
136	5680	17	OFF	17	17	17	20	14	–	–	17	17	20
140	5700	17	OFF	17	17	17	20	–	–	–	–	–	–
5725 to 5850 MHz													
149	5745	17	OFF	17	17	17	20	17	–	–	17	17	20
153	5765	17	OFF	17	17	17	20	17	–	–	17	17	20
157	5785	17	OFF	17	17	17	20	17	–	–	17	17	20
161	5805	17	OFF	17	17	17	20	17	–	–	17	17	20
165	5825	17	OFF	17	17	17	20	–	–	–	–	–	–

1. M0 to M15 corresponds to the Modulaton and Coding Schemes (MCS0 to MCS15). The MCS settings determine the number of spatial streams, the modulation, the coding rate, and the data rate values.

Special Country Restrictions

Table 7-20 lists special restrictions for wireless operation in some countries.

Table 7-20 Special Country Restrictions for Wireless Operation

Country	Frequency Bands (GHz)	Regulatory Domain	Special Limitation and Restrictions
South Korea	2.4 and 5	–E and –K	Maximum antenna gain limited to 6 dBi.
Mexico	2.4	–A	End user must limit 2.4 GHz operation to 2450 to 2483.5 MHz and 36 dBm EIRP.
Russian Federation	5	–R	End user must limit 5 GHz operation to 5150 to 5350 and 5650 to 5725 MHz.
United States	5	–A	Indoor use only from 5150-5250 MHz.

Changing Lightweight Access Point Output Power

This section provides instructions for changing the 1250 series access point output power to comply with the maximum power limits imposed by special regulatory and country restrictions (see the "Special Country Restrictions" section on page 7-21). Follow these instructions to change the output power settings using a controller and your browser:

Note Administrator privileges may be required in order to change access point settings.

Caution To meet regulatory restrictions, the access point and the external antenna must be professionally installed. The network administration or other IT professional responsible for installing and configuring the unit is a suitable professional installer. Following installation, access to the unit should be password-protected by the network administrator to maintain regulatory compliance.

The output power on the access points can be changed only using a Cisco wireless LAN controller (2600 series or 4400 series), the controllers on a Cisco Wireless Services Module (WiSM), or using Cisco Wireless Control System (WCS).

Note See the *Cisco Wireless LAN Controller Configuration Guide* for more details on how to to configure your access point using the web-browser interface.

Follow these steps to change the access point's output power to meet local regulations using a controller:

Step 1 Open your Internet browser. You must use Microsoft Internet Explorer 6.0.2800 or a later release.

Step 2 Enter **https://IP address** (where *IP address* is the controller's IP address) in the browser address line and press **Enter**. A user login screen appears.

Step 3 Enter the username and password and press **Enter**. The controller's summary page appears.

Note The username and password are case-sensitive.

Step 4 Click **Wireless > 802.11a/n Radios** or **802.11b/g/n Radios** and a list of associated access points appears.

Step 5 Choose the desired access point and click **Configure**. The radio settings page appears.

Step 6 Scroll down to the Tx Power Level Assignment field, and click **Custom**.

Custom indicates that the radio output power is manually controlled by the Tx Power Configuration setting field.

Step 7 In the Tx Power Level field, select the appropriate power level setting (1 to 8).

Based on the operating channel, the regulatory domain, and the controller power level setting (1 to 8), the actual transmit power at the access point can be reduced to comply with special regulatory or country restrictions.

Table 21 lists the controller power settings and the corresponding output power levels for these two examples:

- 2.4 GHz) operation in EMEA (–E) regulatory domain:
  - Channel 2 using 11-Mbps data rates with 6-dBi external antenna
- 5 GHz (802.11a) operation:
  - Channel 52 with 6-dBi external antenna

Table 21 Example of Output Power Levels

Controller Tx Power Settings[1]	Radio Output Power	
	802.11b/g/n (dBm)	802.11a/n (dBm)
1 (maximum)	17[2]	17[2]
2	14	14
3	11	11
4	8	8
5	5	5
6	2	2
7	-1	-1
8	–	–

1. The Tx Power Level setting of 1 represents the maximum conducted power setting for the access point. Each subsequent controller power level (such as 2, 3, 4, etc.) represents approximately a 3-dBm reduction in transmit power from the previous power level.
2. The maximum output power levels obtained from Table 7-2 and Table 7-3.

- For 802.11b/g/n (see Table 7-4 and Table 21), the manual controller Tx Power Level setting is 2.
- For 802.11a/n (see Table 7-5 and Table 21), the manual controller Tx Power Level setting is 2.

Step 8 Click **Apply**.

Step 9 Close your Internet browser.