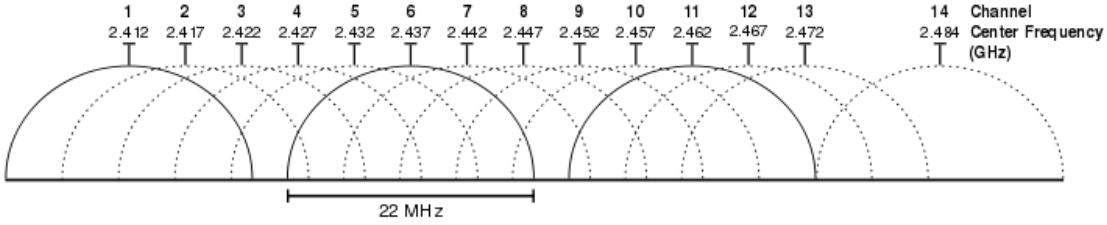
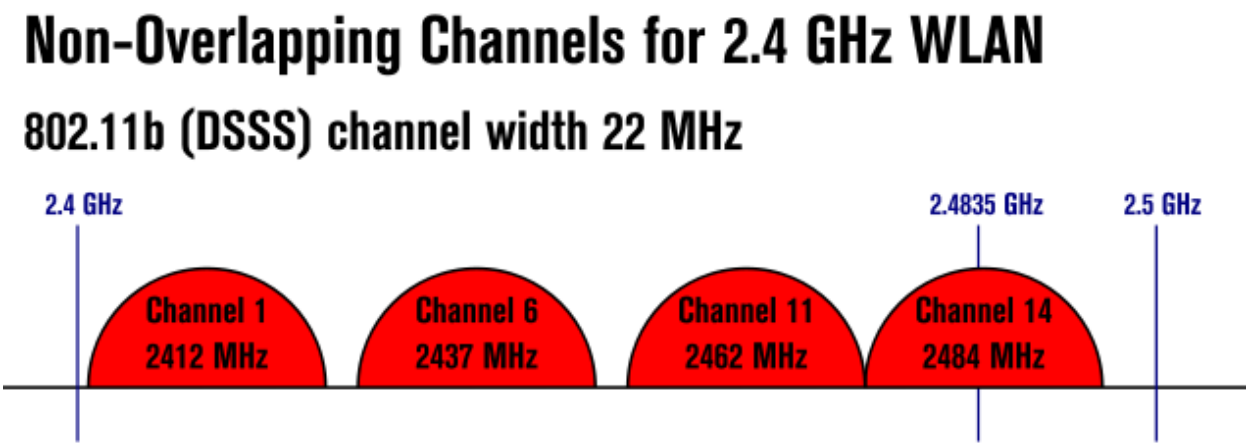


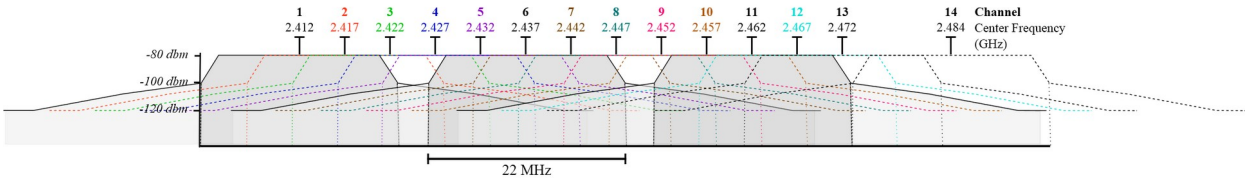
The Linksys WRT54G contains an 802.11b/g radio with two antennas

Graphical representation of Wi-Fi channels in 2.4 GHz band

ISM (International Scientific and Medical) BAND

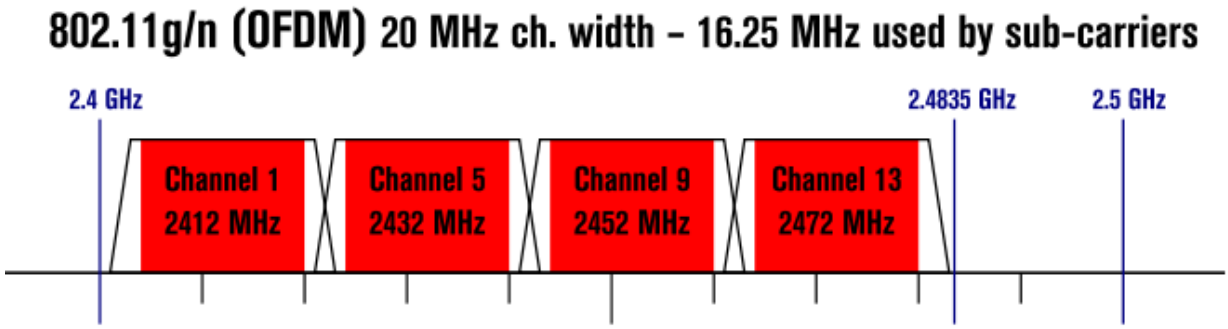






802.11g Wi-Fi channels

- 802.11g (and 2.4 MHz 802.11n) OFDM 20MHz bw



802.11 network standards

802.11 protocol	Release[7]	Freq. (GHz)	Bandwidth (MHz)	Data rate per stream (Mbit/s)[8]	Allowable MIMO streams	Modulation	Approximate indoor range[citation needed]		Approximate outdoor range[citation needed]	
							(m)	(ft)	(m)	(ft)
—	Jun 1997	2.4	20	1, 2	1	DSSS, FHSS	20	66	100	330
a	Sep 1999	5	20	6, 9, 12, 18, 24, 36, 48, 54	1	OFDM	35	115	120	390
		3.7[A]					—	—	5,000	16,000[A]
b	Sep 1999	2.4	20	5.5, 11	1	DSSS	38	125	140	460
g	Jun 2003	2.4	20	6, 9, 12, 18, 24, 36, 48, 54	1	OFDM, DSSS	38	125	140	460

n	Oct 2009	2.4/5	20	7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2[B]	4	OFDM	70	230	250	820[9]
			40	15, 30, 45, 60, 90, 120, 135, 150[B]			70	230	250	820[9]

- [A1] [A2] IEEE 802.11y-2008 extended operation of 802.11a to the licensed 3.7 GHz band. Increased power limits allow a range up to 5,000 m. As of 2009, it is only being licensed in the United States by the FCC.
- [B1] [B2] Assumes short guard interval (SGI) enabled otherwise reduces each data rate by 10%.