TEXAS INSTRUMENTS — Low-Power RF

2.4 GHz

Wi-Fi

Freq(MHz)	Channels
2412	1
2417	2
2422	3
2427	4
2432	5
2437	6
2442	7
2447	8
2452	9
2457	10
2462	11

IEEE Radios CC243x/CC2520/CC253x

Freq(MHz)	Channel Numbers no FHSS	Channel Numbers w/FHSS	Logical Channel Numbers
2405	11	11	1 5 12 15 20
2410	12	12	
2412			
2415	13	13	
2420	14	14	
2425	15	15	0 3 9 13 17 21
2430	16	16	
2435	17	17	
2437			
2440	18	18	
2445	19	19	
2450	20	20	1 0 6 14 16 22
2455	21	21	
2460	22	22	
2462			
2465	23	23	
2470	24	24	
2475	25	25	2 2 7 11 19 24
2480	26	26	3 4 8 10 18 23

CC2500/CC251x

Freq(MHz)	Channel Numbers no FHSS	Channel Numbers w/FHSS	Logical Channel Number
2412.00			
2425.75	3		0
2426.00		4	2
2428.00		12	5
2430.00		20	1
2432.00		28	20
2434.00		36	9
2436.00		44	0
2437.00			
2438.00		52	15
2440.00		60	22
2442.00		68	13
2444.00		76	16
2446.00		84	3
2448.00		92	8
2450.00		100	19
2450.75	103		1
2452.00		108	11
2454.00		116	18
2456.00		124	24
2458.00		132	7
2460.00		140	17
2462.00		148	10
2464.00		156	4
2466.00		164	12
2468.00		172	6
2470.00		180	14
2472.00		188	23
2474.00		196	21
2475.50	202		2
2478.00	212		3

Notes: For CC2500 & CC251x
In SmartRF Studio
Set RF (base) frequency to 2425.0 MHz
Set Channel (spacing) to 250 KHz

Sub GHz

CC110x/CC111x/CC1120/CC430

Freq(MHz)	Channel Numbers no FHSS	Channel Numbers w/FHSS	Logical Channel Number
903		5	7
904		10	17
905		15	10
906	20	20	0 24
907		25	18
908		30	15
909		35	23
910		40	2
911		45	3
912	50	50	1 13
913		55	19
914		60	8
915		65	21
916		70	4
917		75	16
918	80	80	2 5
919		85	22
920		90	0
921		95	14
922		100	6
923		105	1
924	110	110	3 20
925		115	9
926		120	12
927		125	11

Notes: For CC110x, CC111x, CC1120, & CC430
In SmartRF studio
Set RF (base) frequency to 902 MHz
Set Channel (spacing) to 200 KHz
Note: CC1120 does not have a channel number register.

CC1100E (470MHz)

Freq(MHz)	Channel Numbers no FHSS	Channel Numbers w/FHSS	Logical Channel Number
480.8		4	11
481.6		8	4
482.4		12	15
483.2		16	13
484.0	20	20	0 0
484.8		24	20
485.6		28	10
486.4		32	5
487.2		36	1
488.0	40	40	1 12
488.8		44	21
489.6		48	7
490.4		52	19
491.2		56	22
492.0	60	60	2 17
492.8		64	18
493.6		68	6
494.4		72	16
495.2		76	14
496.0	80	80	3 3
496.8		84	2
497.6		88	8
498.4		92	24
499.2		96	23
500.0		100	9

Notes: For CC1100E
In SmartRF Studio
Set RF (base) frequency to 480 MHz (470MHz Band)
Set RF (base) frequency to 955 MHz (950MHz Band)
Set Channel (spacing) to 200KHz

CC1100E(950MHz)

Freq(MHz)	Channel Numbers no FHSS	Channel Numbers w/FHSS	Logical Channel Number
955.2		1	10
955.4		2	9
955.6		3	20
955.8		4	18
956.0	5	5	0 1
956.2		6	19
956.4		7	13
956.6		8	5
956.8		9	2
957.0	10	10	1 3
957.2		11	12
957.4		12	17
957.6		13	16
957.8		14	6
958.0	15	15	2 23
958.2		16	8
958.4		17	15
958.6		18	14
958.8		19	24
959.0	20	20	3 7
959.2		21	22
959.4		22	4
959.6		23	21
959.8		24	0
960.0		25	11

Legend:
- Yellow: Wi-Fi Inteference bands
- Red: Frequency Agility Channel used in SimpliciTI
- Green: Frequency Hopping Channel used in SimpliciTI

Note: Logical Channel 0 of Frequency Agility is Default Channel Used when FHSS and Frequency Agility are Disabled.

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