

# CC13xx datarate vs rxbw

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The actual Rx bandwidth is a function of RF frequency.

Note that for datarates below 20 kbps the frequency tolerance will be low and the system will be difficult to use with crystals as reference.

For a given Rx bandwidth it's only possible to use datarates within a range. The real Rx bandwidth and the datarate range is given in the table below:

433 MHz, divider 10:

BW in TRM	Actual BW	Min DR	Max DR
45	38.8	1.8	29.4
55	48.9	1.8	29.4
66	58.7	1.8	29.4
88	77.5	3.7	58.9
110	97.7	3.7	58.9
130	117.5	3.7	58.9
180	155	7.3	117.5
220	195.5	7.3	117.5
260	234.9	7.3	117.5
350	301.1	14.7	234.9
430	390.9	14.7	234.9
530	469.8	14.7	234.9
700	620.2	29.4	469.8
870	781.8	29.4	469.8
1060	939.7	29.4	469.8
1410	1240.4	58.7	max
1740	1563.6	58.7	max
2120	1879.3	58.7	max
2800	2480.7	117.5	max
3470	3127.2	117.5	max
4240	3758.7	117.5	max

868 MHz, divider 5:

BW in TRM	Actual BW	Min DR	Max DR
45	38.9	1.8	29.4
55	49.0	1.8	29.4
66	58.9	1.8	29.4
88	77.7	3.7	58.9
110	98.0	3.7	58.9
130	117.5	3.7	58.9
180	155.4	7.4	117.7
220	195.9	7.3	117.7
260	235.5	7.3	117.7
350	310.8	14.7	235.5
430	391.8	14.7	235.5
530	470.9	14.7	235.5
700	621.6	29.4	470.9
870	783.6	29.4	470.9
1060	941.8	29.4	470.9
1410	1243.2	58.9	max
1740	1567.2	58.9	max
2120	1883.7	58.9	max
2800	2486.5	117.7	max
3470	3134.4	117.7	max
4240	3767.4	117.7	max

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