

MCS Index - 802.11n and 802.11ac

802.11n 802.11ac

HT VHT					20MHz		40MHz		80MHz		160MHz	
MCS	MCS	SS	Modulation	Coding	No SGI	SGI	No SGI	SGI	No SGI	SGI	No SGI	SGI
0	0	1	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5	58.5	65
1	1	1	QPSK	1/2	13	14.4	27	30	58.5	65	117	130
2	2	1	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5	175.5	195
3	3	1	16-QAM	1/2	26	28.9	54	60	117	130	234	260
4	4	1	16-QAM	3/4	39	43.3	81	90	175.5	195	351	390
5	5	1	64-QAM	5/6	52	57.8	108	120	234	260	468	520
6	6	1	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5	526.5	585
7	7	1	64-QAM	5/6	65	72.2	135	150	292.5	325	585	650
	8	1	256-QAM	3/4	78	86.7	162	180	351	390	702	780
	9	1	256-QAM	5/6	n/a	n/a	180	200	390	433.3	780	866.7
8	0	2	BPSK	1/2	13	14.4	27	30	58.5	65	117	130
9	1	2	QPSK	1/2	26	28.9	54	60	117	130	234	260
10	2	2	QPSK	3/4	39	43.3	81	90	175.5	195	351	390
11	3	2	16-QAM	1/2	52	57.8	108	120	234	260	468	520
12	4	2	16-QAM	3/4	78	86.7	162	180	351	390	702	780
13	5	2	64-QAM	5/6	104	115.6	216	240	468	520	936	1040
14	6	2	64-QAM	3/4	117	130.3	243	270	526.5	585	1053	1170
15	7	2	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	8	2	256-QAM	3/4	156	173.3	324	360	702	780	1404	1560
	9	2	256-QAM	5/6	n/a	n/a	360	400	780	866.7	1560	1733.3
16	0	3	BPSK	1/2	19.5	21.7	40.5	45	87.8	97.5	175.5	195
17	1	3	QPSK	1/2	39	43.3	81	90	175.5	195	351	390
18	2	3	QPSK	3/4	58.5	65	121.5	135	263.3	292.5	526.5	585
19	3	3	16-QAM	1/2	78	86.7	162	180	351	390	702	780
20	4	3	16-QAM	3/4	117	130	243	270	526.5	585	1053	1170
21	5	3	64-QAM	5/6	156	173.3	324	360	702	780	1404	1560
22	6	3	64-QAM	3/4	175.5	195	364.5	405	n/a	n/a	1579.5	1755
23	7	3	64-QAM	5/6	195	216.7	405	450	877.5	975	1755	1950
	8	3	256-QAM	3/4	234	260	486	540	1053	1170	2106	2340
	9	3	256-QAM	5/6	260	288.9	540	600	1170	1300	n/a	n/a
24	0	4	BPSK	1/2	26	28.9	54	60	117	130	234	260
25	1	4	QPSK	1/2	52	57.8	108	120	234	260	468	520
26	2	4	QPSK	3/4	78	86.7	162	180	351	390	702	780
27	3	4	16-QAM	1/2	104	115.6	216	240	468	520	936	1040
28	4	4	16-QAM	3/4	156	173.3	324	360	702	780	1404	1560
29	5	4	64-QAM	5/6	208	231.1	432	480	936	1040	1872	2080
30	6	4	64-QAM	3/4	234	260	486	540	1053	1170	2106	2340
31	7	4	64-QAM	5/6	260	288.9	540	600	1170	1300	2340	2600
	8	4	256-QAM	3/4	312	346.7	648	720	1404	1560	2808	3120
	9	4	256-QAM	5/6	n/a	n/a	720	800	1560	1733.3	3120	3466.7