

Wi-Fi 7 Peak Rates - 4K QAM and 320 MHz

Equivalent to 160 MHz

36.5.12 EHT-MCSs for 2×996-tone RU

The rate-dependent parameters for the 2×996-tone RU are provided in Table 36-82 (EHT-MCSs for 2×996-tone RU, $N_{SS,u} = 1$).

Table 36-82—EHT-MCSs for 2×996-tone RU, $N_{SS,u} = 1$

EHT-MCS index	Modulation	R_u	$N_{BPSCS,u}$	$N_{SD,u}$	$N_{CBPS,u}$	$N_{DBPS,u}$	Data rate (Mb/s)		
							0.8 μ s GI	1.6 μ s GI	3.2 μ s GI
0	BPSK	1/2	1	1 960	1 960	980	72.1	68.1	61.3
1	QPSK	1/2	2		3 920	1 960	144.1	136.1	122.5
2		3/4				2 940	216.2	204.2	183.5
3	16-QAM	1/2	4		7 840	3 920	288.2	272.2	245.0
4		3/4				5 880	432.4	408.3	367.5
5	64-QAM	2/3	6		11 760	7 840	576.5	544.4	490.0
6		3/4				8 820	648.5	612.5	551.3
7		5/6				9 800	720.6	680.6	612.5
8	256-QAM	3/4	8		15 680	11 760	864.7	816.7	735.0
9		5/6				13 066	960.7	907.4	816.6
10	1024-QAM	3/4	10		19 600	14 700	1 080.9	1 020.8	918.8
11		5/6				16 333	1 201.0	1 134.2	1 020.8
12	4096-QAM	3/4	12		23 520	17 640	1 297.1	1 225.0	1 102.5
13		5/6				19 600	1 441.2	1 361.1	1 225.0
15	BPSK-DCM	1/2	1		980	980	490	36.0	34.0

Wi-Fi 6e MCS11 @ 160 MHz x4 = 4800 Mbps

Equivalent to 320 MHz

36.5.16 EHT-MCSs for 4×996-tone RU

The rate-dependent parameters for the 4×996-tone RU are provided in Table 36-86 (EHT-MCSs for 4×996-tone RU, $N_{SS,u} = 1$).

Table 36-86—EHT-MCSs for 4×996-tone RU, $N_{SS,u} = 1$

EHT-MCS index	Modulation	R_u	$N_{BPSCS,u}$	$N_{SD,u}$	$N_{CBPS,u}$	$N_{DBPS,u}$	Data rate (Mb/s)		
							0.8 μ s GI	1.6 μ s GI	3.2 μ s GI
0	BPSK	1/2	1	3 920	3 920	1 960	144.1	136.1	122.5
1	QPSK	1/2	2		7 840	3 920	288.2	272.2	245.0
2		3/4				5 880	432.4	408.3	367.5
3	16-QAM	1/2	4		15 680	7 840	576.5	544.4	490.0
4		3/4				11 760	864.7	816.7	735.0
5	64-QAM	2/3	6		23 520	15 680	1 152.9	1 088.9	980.0
6		3/4				17 640	1 297.1	1 225.0	1 102.5
7		5/6				19 600	1 441.2	1 361.1	1 225.0
8	256-QAM	3/4	8		31 360	23 520	1 729.4	1 633.3	1 470.0
9		5/6				26 133	1 921.5	1 814.8	1 633.3
10	1024-QAM	3/4	10		39 200	29 400	2 161.8	2 041.7	1 837.5
11		5/6				32 666	2 401.9	2 268.5	2 041.6
12	4096-QAM	3/4	12		47 040	35 280	2 594.1	2 450.0	2 205.0
13		5/6				39 200	2 882.4	2 722.2	2 450.0
15	BPSK-DCM	1/2	1		1 960	1 960	980	72.1	68.1

Wi-Fi 7 MCS13 @ 320 MHz x4 = 11530 Mbps!