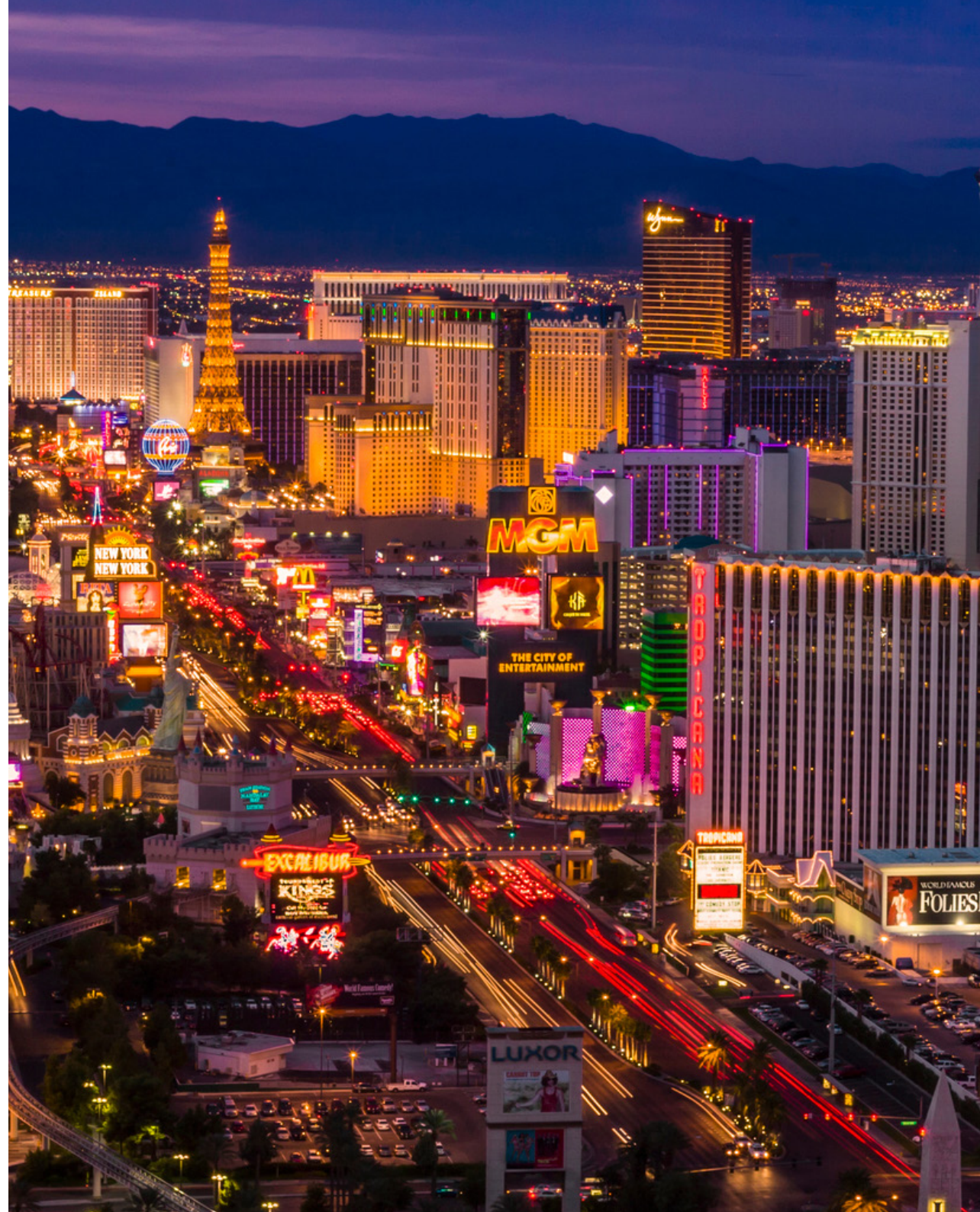


HPE

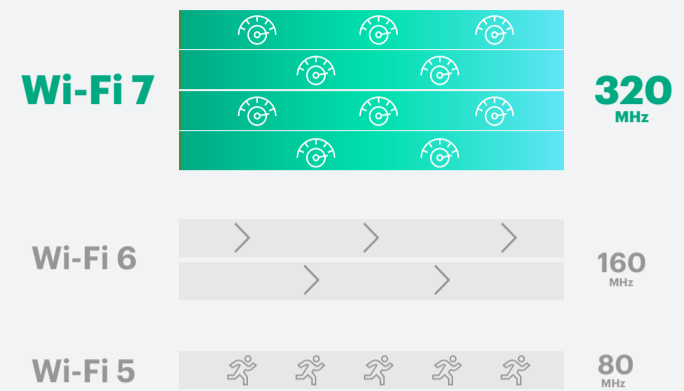
Wi-Fi 7 quick guides



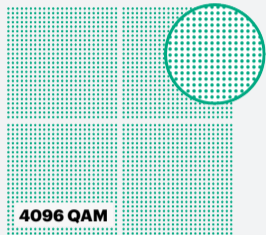
The next-generation 802.11 standard delivers faster, more secure, more resilient connections—and a host of other improvements.

320 MHz Channels: 2x higher throughput

Wi-Fi 7 introduces ultrawide 320 MHz channels that are only available in the 6 GHz spectrum, effectively doubling throughput and significantly enhancing network speeds compared to previous Wi-Fi standards.

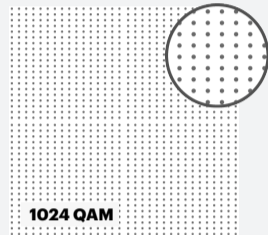


Wi-Fi 7



12 bits/symbol

Wi-Fi 6



10 bits/symbol

4K QAM: Higher transmission efficiency

4K-QAM (Quadrature Amplitude Modulation) boosts data transmission rates by up to 20% compared to the 1K-QAM of Wi-Fi 6, thanks to its ability to pack signals more densely in the same amount of spectrum.

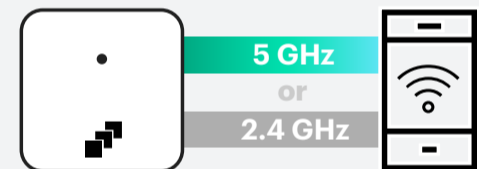
Multi-Link Operation (MLO): Increased throughput, lower latency, enhanced reliability

Prior to Wi-Fi 7, devices used a single band for data transmission. For the first time, Multi-Link Operation (MLO) employs simultaneous bands to transmit and receive over multiple links, supporting more efficient load balancing, lowering latency, and enhancing reliability.

Wi-Fi 7



Wi-Fi 6



6 GHz Channel Allocations 1200 MHz

FCC — USA	
Low Power Indoor	5dBm/MHz - Net EIRP 18dBm
Radio Band	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Center Frequency	5.955 5.967 5.995 6.015 6.035 6.055 6.075 6.095 6.115 6.135 6.155 6.175 6.195 6.215 6.235 6.255 6.275 6.295 6.315 6.335 6.355 6.375 6.395 6.415 6.435 6.455 6.475 6.495 6.515 6.535 6.555 6.575 6.595 6.615 6.635 6.655 6.675 6.695 6.715 6.735 6.755 6.775 6.795 6.815 6.835 6.855 6.875 6.895 6.915 6.935 6.955 6.975 6.995 7.015 7.035 7.055 7.075 7.095 7.115
20MHz	1 5 9 13 17 21 25 29 33 37 41 45 49 53 57 61 65 69 73 77 81 85 89 93 97 101 105 109 113 117 121 125 129 133 137 141 145 149 153 157 161 165 169 173 177 181 185 189 193 197 201 205 209 213 217 221 225 229 233 QTY 59
40MHz	3 11 19 27 35 43 51 59 67 75 83 91 99 107 115 123 131 139 147 155 163 171 179 187 195 203 211 219 227 QTY 29
80MHz	7 23 39 55 71 87 103 119 135 151 167 183 199 215 231 QTY 14
160MHz	15 47 79 111 143 175 207 QTY 7
320MHz	31 63 95 127 159 191
Allowed Unlicensed Usage	Low Power Indoor Low Power Indoor, Standard Power AP Low Power Indoor Low Power Indoor, Standard Power AP
	Fixed Service, Satellite Service Satellite Service, TV & Broadcast Services Fixed Service, Satellite Service Satellite Service, TV and Broadcast Services

— US 6 GHz support : UNII-5 (5.955-6.425), UNII-6 (6.425-6.525), UNII-7 (6.525-6.875), UNII-8 (6.875-7.125)

— EU 6 GHz support : UNII-5 (5.955-6.425)

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