



The Differences Between .11a/b/g

	802.11b (Wi-Fi)	↔	802.11g	802.11a/h* (Wi-Fi 5)
Freq. Band	2.4 GHz 2.400-2.4835		2.4 GHz 2.400-2.4835	5.x GHz 5.150-5350 (200 mW)* 5.470-5725 (1 W)* 5.725-5.825 (4 W)
Modulation	DSSS		OFDM	OFDM
Max. bit rate, raw	11 Mb/s		54 Mb/s	54 Mb/s
net	5.5 Mb/s		20-24 Mb/s	28 Mb/s
Capacity, net	16.5 Mb/s		60-72 Mb/s	336 Mb/s
Range @ max rate	57 m		19 m	12 m
Current @ 3V	300 mA		400 mA	550 mA
Unit cost	100%		110%	120%
Costs @max rate	100%		500%	2000%
Number of channels	3		3	4 – 18
Spectrum access	World-wide		World-wide	Today: US, Japan Europe: 2003 (h)



Regulatory – RF Power Limits

