

11n/MiMo product Specs

Product		MIMO-58JNR (5GHz)				WLO-15814N (5GHz)		WL852RT4	ESR-9855	ERB-9250	ESR-6650	ESR-9752	ESR-9850	ECB-9500	EAP-9550	WLN-402	
Mode																	
11g	6Mbps							17dBm	19dBm	16dBm	15dBm	16dBm	16dBm	19dBm	18dBm	18dBm	
	54Mbps							-88dBm	-92dBm	-92dBm	-90dBm	-92dBm	-92dBm	-92dBm	-92dBm	-86dBm	
								16dBm	16dBm	16dBm	15dBm	16dBm	16dBm	16dBm	13dBm	18dBm	
								-68dBm	-79dBm	-75dBm	-70dBm	-75dBm	-75dBm	-75dBm	-72dBm	-70dBm	
11n		HT20	Range*	HT40	Range*	HT20/40	Range*	HT20/40	HT20/40	HT20/40	HT20/40	HT20/40	HT20/40	HT20/40	HT20	HT40	
MCS0		18dBm	10Km	16dBm	5Km	16dBm	6Km			16dBm	15dBm	16dBm	16dBm			16dBm	
		-95dBm		-91dBm		-91dBm											
MCS6								17dBm									
								-68dBm									
MCS7		12dBm	600m	9dBm	300m	16dBm	1Km			16dBm	15dBm	16dBm	16dBm				
		-77dBm		-74dBm		-74dBm											
MCS8		18dBm	10Km	16dBm	5Km	16dBm	6Km		20dBm	16dBm		16dBm	16dBm				
		-94dBm		-92dBm		-91dBm											
MCS9														-91dBm	-90dBm		
MCS10														19dBm	18dBm		
MCS11														18dBm	16dBm		
MCS12																	
MCS13														17dBm	14dBm		
MCS14																	
MCS15		12dBm	500m	9dBm	200m	16dBm	1Km		16dBm	16dBm		16dBm	16dBm	16dBm	13dBm	16dBm	
		-74dBm		-70dBm		-74dBm											

*Best estimate using built in antenna with clear line of site and zero interference with 10dBm operating margin.
Factors such as air quality and reflection/scatter will alter these values.

Maximum Theoretical Data Rates for 11n Modes

MCS Index	Type	Coding Rate	Spatial Streams	Data Rate (Mbps) with 20 MHz CH		Data Rate (Mbps) with 40 MHz CH	
				800 ns	400 ns (SGI)	800 ns	400 ns (SGI)
				0	BPSK	1 / 2	1
1	QPSK	1 / 2	1	13.00	14.40	27.00	30.00
2	QPSK	3 / 4	1	19.50	21.70	40.50	45.00
3	16-QAM	1 / 2	1	26.00	28.90	54.00	60.00
4	16-QAM	3 / 4	1	39.00	43.30	81.00	90.00
5	64-QAM	2 / 3	1	52.00	57.80	108.00	120.00
6	64-QAM	3 / 4	1	58.50	65.00	121.50	135.00
7	64-QAM	5 / 6	1	65.00	72.20	135.00	150.00
8	BPSK	1 / 2	2	13.00	14.40	27.00	30.00
9	QPSK	1 / 2	2	26.00	28.90	54.00	60.00
10	QPSK	3 / 4	2	39.00	43.30	81.00	90.00
11	16-QAM	1 / 2	2	52.00	57.80	108.00	120.00
12	16-QAM	3 / 4	2	78.00	86.70	162.00	180.00
13	64-QAM	2 / 3	2	104.00	115.60	216.00	240.00
14	64-QAM	3 / 4	2	117.00	130.00	243.00	270.00
15	64-QAM	5 / 6	2	130.00	144.40	270.00	300.00
16	BPSK	1 / 2	3	19.50	21.70	40.50	45.00
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31	64-QAM	5 / 6	4	260.00	288.90	540.00	600.00

Solwise Ltd
17 Priory Tec Park
Saxon Way
Hessle. HU13 9PB
Tel 0845 458 4558
Email sales@solwise.co.uk
www.solwise.co.uk