User Manual

Ralink 802.11n dual band AP with 6 channels (5250MHz \sim 5350MHz).

Product specification

Draft n

Items	Description				
Product Type	WLAN (2TX, 3RX)				
Radio Type	Intentional Transceiver				
Power Type	From power adapter				
Modulation	see the below table for draft n				
Data Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)				
Data Rate (Mbps)	see the below table for Draft n				
Frequency Range	5250 ~ 5350MHz				
Channel Number	4 for 20MHz bandwidth ; 2 for 40MHz bandwidth				
Channel Band Width (99%)	MCS8 (20MHz) : 17.82 MHz				
	MCS8 (40MHz) : 36.15 MHz				
Conducted Output Power	MCS8 (20MHz) : 17.36 dBm				
	MCS8 (40MHz) : 16.64 dBm				

Draft n spec

1400					NORDO		NDDDO		Data rate(Mbps)	
MCS	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		800nsGI	
Index					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	486	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0
8	2	BPSK	1/2	1	104	216	52	108	13.0	27.0
9	2	QPSK	1/2	2	208	432	104	216	26.0	54.0
10	2	QPSK	3/4	2	208	432	156	324	39.0	81.0
11	2	16-QAM	1/2	4	416	864	208	432	52.0	108.0
12	2	16-QAM	3/4	4	416	864	312	648	78.0	162.0
13	2	64-QAM	2/3	6	624	1296	416	864	104.0	216.0
14	2	64-QAM	3/4	6	624	1296	468	972	117.0	243.0
15	2	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0

Symbol	Explanation	
NSS	Number of spatial streams	
R	Code rate	
NBPSC	Number of coded bits per single carrier	
NCBPS	Number of coded bits per symbol	
NDBPS	Number of data bits per symbol	
GI	guard interval	

802.11a

Items	Description				
Product Type	WLAN (1TX, 3RX)				
Radio Type	Intentional Transceiver				
Power Type	From power adapter				
Modulation	OFDM for IEEE 802.11a				
Data Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)				
Data Rate (Mbps)	OFDM (6/9/12/18/24/36/48/54)				
Frequency Range	5250 ~ 5350MHz				
Channel Number	11a: 4				
Channel Band Width (99%)	11a: 17.05 MHz				
Conducted Output Power	11a: 15.55 dBm				

Antenna & Band width

Antenna	Singl	е (ТХ)	Two (TX)		
Band width Mode	20 MHz	40 MHz	20 MHz	40 MHz	
802.11a	٧	X	X	X	
Draft n	Х	Х	V	V	

Note: The EUT will only be used as support equipment in support of DFS testing for client device, and will not be marketed to the general public.