



SR71-USB

World's First Hi-Power 11n USB Radio



CARD INFORMATION							
Wireless Chipset	Atheros AR9170 with DFS SUPPORT						
Radio Operation	IEEE 802.11a/b/g/n						
Interface	USB 2.0						
Operation Voltage	5.0VDC						
Antenna Ports	(2) MMCX for 2x2 MIMO Operation						
Temperature Range	-20C to +70C						
Security	802.11i with AES-CCM & TKIP Encryption, 802.1x, 64/128/152bit WEP						
Data Rates	Legacy 802.11a/b/g (1-54Mbps), 802.11n (up to 300Mbps)						
RoHS Compliance	YES						
REGULATORY INFORMATION							
Wireless Modular Approvals	FCC , Industry Canada, CE (100mW limited)						
OPERATING FREQUENCY 2412MHz-2462MHz							
2.4GHz TX POWER SPECIFICATIONS				2.4GHz RX SPECIFICATIONS			
11b/g	DataRate	Avg. TX	Tolerance	11b/g	DataRate	Sensitivity	Tolerance
	1-24Mbps	24 dBm	+/-2dB		1-24Mbps	-97 dBm	+/-3dB
	36Mbps	22 dBm	+/-2dB		36Mbps	-90 dBm	+/-3dB
	48Mbps	20 dBm	+/-2dB		48Mbps	-86 dBm	+/-3dB
2.4GHz 11n HT20	54Mbps	19 dBm	+/-2dB	2.4GHz 11n HT20	54Mbps	-84 dBm	+/-3dB
	MCS0	24 dBm	+/-2dB		MCS0	-97 dBm	+/-3dB
	MCS1	24 dBm	+/-2dB		MCS1	-96 dBm	+/-3dB
	MCS2	24 dBm	+/-2dB		MCS2	-93 dBm	+/-3dB
	MCS3	22 dBm	+/-2dB		MCS3	-91 dBm	+/-3dB
	MCS4	22 dBm	+/-2dB		MCS4	-87 dBm	+/-3dB
	MCS5	22 dBm	+/-2dB		MCS5	-84 dBm	+/-3dB
	MCS6	18 dBm	+/-2dB		MCS6	-78 dBm	+/-3dB
	MCS7	15 dBm	+/-2dB		MCS7	-75 dBm	+/-3dB
	MCS8	24 dBm	+/-2dB		MCS8	-96 dBm	+/-3dB
	MCS9	24 dBm	+/-2dB		MCS9	-94 dBm	+/-3dB
	MCS10	22 dBm	+/-2dB		MCS10	-91 dBm	+/-3dB
	MCS11	20 dBm	+/-2dB		MCS11	-88 dBm	+/-3dB
	MCS12	20 dBm	+/-2dB		MCS12	-85 dBm	+/-3dB
	MCS13	17 dBm	+/-2dB		MCS13	-80 dBm	+/-3dB
MCS14	17 dBm	+/-2dB	MCS14	-79 dBm	+/-3dB		
MCS15	15 dBm	+/-2dB	MCS15	-76 dBm	+/-3dB		
OPERATING FREQUENCY 5745MHz-5825MHz							
5GHz TX POWER SPECIFICATIONS				5GHz RX SPECIFICATIONS			
11a	DataRate	Avg. TX	Tolerance	11a	DataRate	Sensitivity	Tolerance
	1-24Mbps	20 dBm	+/-2dB		1-24Mbps	-96 dBm	+/-3dB
	36Mbps	18 dBm	+/-2dB		36Mbps	-95 dBm	+/-3dB
	48Mbps	16 dBm	+/-2dB		48Mbps	-94 dBm	+/-3dB
5GHz 11n	54Mbps	15 dBm	+/-2dB	5GHz 11n	54Mbps	-91 dBm	+/-3dB
	MCS0	20 dBm	+/-2dB		MCS0	-96 dBm	+/-3dB
	MCS1	20 dBm	+/-2dB		MCS1	-95 dBm	+/-3dB
	MCS2	20 dBm	+/-2dB		MCS2	-92 dBm	+/-3dB
	MCS3	18 dBm	+/-2dB		MCS3	-90 dBm	+/-3dB
	MCS4	18 dBm	+/-2dB		MCS4	-86 dBm	+/-3dB
	MCS5	18 dBm	+/-2dB		MCS5	-83 dBm	+/-3dB
	MCS6	13 dBm	+/-2dB		MCS6	-77 dBm	+/-3dB
	MCS7	11 dBm	+/-2dB		MCS7	-74 dBm	+/-3dB
	MCS8	20 dBm	+/-2dB		MCS8	-95 dBm	+/-3dB
	MCS9	20 dBm	+/-2dB		MCS9	-93 dBm	+/-3dB
	MCS10	18 dBm	+/-2dB		MCS10	-90 dBm	+/-3dB
	MCS11	16 dBm	+/-2dB		MCS11	-87 dBm	+/-3dB
	MCS12	16 dBm	+/-2dB		MCS12	-84 dBm	+/-3dB
	MCS13	13 dBm	+/-2dB		MCS13	-79 dBm	+/-3dB
MCS14	13 dBm	+/-2dB	MCS14	-78 dBm	+/-3dB		
MCS15	11 dBm	+/-2dB	MCS15	-75 dBm	+/-3dB		
AVG. CURRENT CONSUMPTION INFORMATION							
MODE	6Mbps	MCS0	MCS15	MODE	6Mbps	MCS0	MCS15
100% TX	0.75A	0.75A	0.75A	100% TX	0.75A	0.75A	0.75A
Real-World*	0.55A	0.60A	0.35A	Strength	0.55A	0.60A	0.40A
Idle	0.25A	0.25A	0.25A	Idle	0.25A	0.25A	0.25A
ANTENNA INFORMATION							
Antenna 1 (included)	5dBi MMCX Omni with laptop mount and 12cm cable						
Antenna 2 (included)	5dBi MMCX Omni with laptop mount and 18cm cable						
RANGE PERFORMANCE							
Indoor (Antenna Dependent):	Up to 300meters						
Outdoor (Antenna Dependent):	Over 10km						
DRIVER INFORMATION							
Operating System Support	WinXP, WinVista						
*Using large file FTP transfer.							

