



SR71-E

Hi-Power 802.11n PCI-E Module



CARD INFORMATION								
Wireless Chipset				Atheros AR9220 with DFS SUPPORT				
Radio Operation				IEEE 802.11a/b/g/n				
Interface				PCI-E				
Operation Voltage				3.3VDC				
Antenna Ports				(2) u.fl for 2x2 MIMO Operation				
Temperature Range				-20C to +70C (extended temp version up to +95C)				
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	26 dBm	+/-2dB			1-24Mbps	-97 dBm	+/-3dB
	36Mbps	24 dBm	+/-2dB			36Mbps	-90 dBm	+/-3dB
	48Mbps	22 dBm	+/-2dB			48Mbps	-86 dBm	+/-3dB
	54Mbps	20 dBm	+/-2dB			54Mbps	-84 dBm	+/-3dB
2.4GHz 11n HT20	MCS0	26 dBm	+/-2dB		2.4GHz 11n HT20	MCS0	-97 dBm	+/-3dB
	MCS1	26 dBm	+/-2dB			MCS1	-96 dBm	+/-3dB
	MCS2	26 dBm	+/-2dB			MCS2	-93 dBm	+/-3dB
	MCS3	25 dBm	+/-2dB			MCS3	-91 dBm	+/-3dB
	MCS4	24 dBm	+/-2dB			MCS4	-87 dBm	+/-3dB
	MCS5	23 dBm	+/-2dB			MCS5	-84 dBm	+/-3dB
	MCS6	21 dBm	+/-2dB			MCS6	-78 dBm	+/-3dB
	MCS7	19 dBm	+/-2dB			MCS7	-75 dBm	+/-3dB
	MCS8	26 dBm	+/-2dB			MCS8	-98 dBm	+/-3dB
	MCS9	26 dBm	+/-2dB			MCS9	-97 dBm	+/-3dB
	MCS10	26 dBm	+/-2dB			MCS10	-94 dBm	+/-3dB
	MCS11	25 dBm	+/-2dB			MCS11	-92 dBm	+/-3dB
	MCS12	24 dBm	+/-2dB			MCS12	-88 dBm	+/-3dB
	MCS13	23 dBm	+/-2dB			MCS13	-85 dBm	+/-3dB
	MCS14	21 dBm	+/-2dB	MCS14		-79 dBm	+/-3dB	
MCS15	19 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	24 dBm	+/-2dB			1-24Mbps	-96 dBm	+/-3dB
	36Mbps	22 dBm	+/-2dB			36Mbps	-95 dBm	+/-3dB
	48Mbps	20 dBm	+/-2dB			48Mbps	-94 dBm	+/-3dB
	54Mbps	19 dBm	+/-2dB			54Mbps	-91 dBm	+/-3dB
5GHz 11n	MCS0	24 dBm	+/-2dB		5GHz 11n	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	20 dBm	+/-2dB			MCS6	-78 dBm	+/-3dB
	MCS7	17 dBm	+/-2dB			MCS7	-75 dBm	+/-3dB
	MCS8	24 dBm	+/-2dB			MCS8	-98 dBm	+/-3dB
	MCS9	24 dBm	+/-2dB			MCS9	-97 dBm	+/-3dB
	MCS10	24 dBm	+/-2dB			MCS10	-94 dBm	+/-3dB
	MCS11	22 dBm	+/-2dB			MCS11	-92 dBm	+/-3dB
	MCS12	22 dBm	+/-2dB			MCS12	-88 dBm	+/-3dB
	MCS13	22 dBm	+/-2dB			MCS13	-85 dBm	+/-3dB
	MCS14	20 dBm	+/-2dB	MCS14		-79 dBm	+/-3dB	
MCS15	17 dBm	+/-2dB	MCS15	-76 dBm	+/-3dB			
AVG. CURRENT CONSUMPTION INFORMATION								
MODE				6Mbps	MCS0, HT20	MCS15, HT20	MCS15, HT40	
100% TX (using TX99 test tool)				1.30A	1.30A	0.70A	0.70A	
Real-World (using iPerf long file transfer)				0.75A	0.75A	0.50A	0.50A	
Idle				0.25A	0.25A	0.25A	0.25A	
RANGE PERFORMANCE								
Indoor (Antenna Dependent):				Up to 200meters				
Outdoor (Antenna Dependent):				Over 50km				
For help with special driver support, please e-mail support@ubnt.com								



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