



# SR71-X

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MIMO RADIOS

Hi-Power 802.11n Express Card



CARD INFORMATION	
Wireless Chipset	Atheros AR9280 with DFS SUPPORT
Radio Operation	IEEE 802.11a/b/g/n
Interface	Express Card
Operation Voltage	3.3VDC
Antenna Ports	(2) MMCX 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			
	DataRate	Avg. TX	Tolerance		DataRate	Sensitivity	Tolerance
11b/g	1-24Mbps	26 dBm	+/-2dB	11b/g	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			
	DataRate	Avg. TX	Tolerance		DataRate	Sensitivity	Tolerance
11a	1-24Mbps	24 dBm	+/-2dB	11a	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

