



SR71-A

Outdoor 3x3 802.11n MIMO mini-PCI Module

CARD INFORMATION							
Wireless Chipset				Atheros AR9160 with DFS SUPPORT			
Radio Operation				IEEE 802.11a/b/g/n			
Interface				32-bit mini-PCI Type IIIA			
Operation Voltage				3.3VDC			
Antenna Ports				(3) MMCX for 3x3 MIMO Operation			
Temperature Range				-40C to +80C (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			
OPERATING FREQUENCY 2412MHz-2462MHz							
2.4GHz TX POWER SPECIFICATIONS				2.4GHz RX SPECIFICATIONS			
	DataRate	Avg. TX	Tolerance		DataRate	Sensitivity	Tolerance
11b/g	1-24Mbps	24 dBm	+/-2dB	11b/g	1-24Mbps	-97 dBm	+/-3dB
	36Mbps	22 dBm	+/-2dB		36Mbps	-90 dBm	+/-3dB
	48Mbps	20 dBm	+/-2dB		48Mbps	-86 dBm	+/-3dB
	54Mbps	19 dBm	+/-2dB		54Mbps	-84 dBm	+/-3dB
2.4GHz 11n HT20	MCS0	24 dBm	+/-2dB	2.4GHz 11n HT20	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 5475MHz-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	-96 dBm	+/-3dB
	MCS1	24 dBm	+/-2dB		MCS1	-95 dBm	+/-3dB
	MCS2	24 dBm	+/-2dB		MCS2	-92 dBm	+/-3dB
	MCS3	22 dBm	+/-2dB		MCS3	-90 dBm	+/-3dB
	MCS4	22 dBm	+/-2dB		MCS4	-86 dBm	+/-3dB
	MCS5	22 dBm	+/-2dB		MCS5	-83 dBm	+/-3dB
	MCS6	18 dBm	+/-2dB		MCS6	-77 dBm	+/-3dB
	MCS7	15 dBm	+/-2dB		MCS7	-74 dBm	+/-3dB
	MCS8	24 dBm	+/-2dB		MCS8	-95 dBm	+/-3dB
	MCS9	24 dBm	+/-2dB		MCS9	-93 dBm	+/-3dB
	MCS10	22 dBm	+/-2dB		MCS10	-90 dBm	+/-3dB
	MCS11	20 dBm	+/-2dB		MCS11	-87 dBm	+/-3dB
	MCS12	20 dBm	+/-2dB		MCS12	-84 dBm	+/-3dB
	MCS13	17 dBm	+/-2dB		MCS13	-79 dBm	+/-3dB
	MCS14	17 dBm	+/-2dB		MCS14	-78 dBm	+/-3dB
MCS15	15 dBm	+/-2dB	MCS15	-75 dBm	+/-3dB		
AVG. CURRENT CONSUMPTION INFORMATION							
MODE	6Mbps	MCS0	MCS15	MODE	6Mbps	MCS0	MCS15
100% TX	1.25A	1.25A	0.80A	100% TX	1.25A	1.25A	0.80A
Real-World*	0.75A	0.80A	0.35A	TCP/IP	0.75A	0.80A	0.35A
Idle	0.30A	0.30A	0.30A	Idle	0.30A	0.30A	0.30A
RANGE PERFORMANCE							
Indoor (Antenna Dependent):				greater than 300m			
Outdoor (Antenna Dependent):				greater than 60km			
DRIVER INFORMATION							
Operating System Support				UBIQUITI LiteStationX + AirOS			
*Using large file FTP transfer. For further support, please visit forum.ubnt.com or e-mail support@ubnt.com							

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