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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

	DataRate	Avg. TX	Tolerance
11b/g	1-24Mbps	24 dBm	+/-2dB
	36Mbps	22 dBm	+/-2dB
	48Mbps	20 dBm	+/-2dB
	54Mbps	19 dBm	+/-2dB
2.4GHz 11n HT20	MCS0	24 dBm	+/-2dB
	MCS1	24 dBm	+/-2dB
	MCS2	24 dBm	+/-2dB
	MCS3	22 dBm	+/-2dB
	MCS4	22 dBm	+/-2dB
	MCS5	22 dBm	+/-2dB
	MCS6	18 dBm	+/-2dB
	MCS7	15 dBm	+/-2dB
	MCS8	24 dBm	+/-2dB
	MCS9	24 dBm	+/-2dB
	MCS10	22 dBm	+/-2dB
	MCS11	20 dBm	+/-2dB
	MCS12	20 dBm	+/-2dB
	MCS13	17 dBm	+/-2dB
	MCS14	17 dBm	+/-2dB
	MCS15	15 dBm	+/-2dB

2.4GHz RX SPECIFICATIONS

	DataRate	Sensitivity	Tolerance
11b/g	1-24Mbps	-97 dBm	+/-3dB
	36Mbps	-90 dBm	+/-3dB
	48Mbps	-86 dBm	+/-3dB
	54Mbps	-84 dBm	+/-3dB
2.4GHz 11n HT20	MCS0	-97 dBm	+/-3dB
	MCS1	-96 dBm	+/-3dB
	MCS2	-93 dBm	+/-3dB
	MCS3	-91 dBm	+/-3dB
	MCS4	-87 dBm	+/-3dB
	MCS5	-84 dBm	+/-3dB
	MCS6	-78 dBm	+/-3dB
	MCS7	-75 dBm	+/-3dB
	MCS8	-96 dBm	+/-3dB
	MCS9	-94 dBm	+/-3dB
	MCS10	-91 dBm	+/-3dB
	MCS11	-88 dBm	+/-3dB
	MCS12	-85 dBm	+/-3dB
	MCS13	-80 dBm	+/-3dB
	MCS14	-79 dBm	+/-3dB
	MCS15	-76 dBm	+/-3dB

OPERATING FREQUENCY 5475MHz-5825MHz

5GHz TX POWER SPECIFICATIONS

	DataRate	Avg. TX	Tolerance
11a	1-24Mbps	24 dBm	+/-2dB
	36Mbps	22 dBm	+/-2dB
	48Mbps	20 dBm	+/-2dB
	54Mbps	19 dBm	+/-2dB
5GHz 11n	MCS0	24 dBm	+/-2dB
	MCS1	24 dBm	+/-2dB
	MCS2	24 dBm	+/-2dB
	MCS3	22 dBm	+/-2dB
	MCS4	22 dBm	+/-2dB
	MCS5	22 dBm	+/-2dB
	MCS6	18 dBm	+/-2dB
	MCS7	15 dBm	+/-2dB
	MCS8	24 dBm	+/-2dB
	MCS9	24 dBm	+/-2dB
	MCS10	22 dBm	+/-2dB
	MCS11	20 dBm	+/-2dB
	MCS12	20 dBm	+/-2dB
	MCS13	17 dBm	+/-2dB
	MCS14	17 dBm	+/-2dB
	MCS15	15 dBm	+/-2dB

5GHz RX SPECIFICATIONS

	DataRate	Sensitivity	Tolerance
11a	1-24Mbps	-96 dBm	+/-3dB
	36Mbps	-95 dBm	+/-3dB
	48Mbps	-94 dBm	+/-3dB
	54Mbps	-91 dBm	+/-3dB
5GHz 11n	MCS0	-96 dBm	+/-3dB
	MCS1	-95 dBm	+/-3dB
	MCS2	-92 dBm	+/-3dB
	MCS3	-90 dBm	+/-3dB
	MCS4	-86 dBm	+/-3dB
	MCS5	-83 dBm	+/-3dB
	MCS6	-77 dBm	+/-3dB
	MCS7	-74 dBm	+/-3dB
	MCS8	-95 dBm	+/-3dB
	MCS9	-93 dBm	+/-3dB
	MCS10	-90 dBm	+/-3dB
	MCS11	-87 dBm	+/-3dB
	MCS12	-84 dBm	+/-3dB
	MCS13	-79 dBm	+/-3dB
	MCS14	-78 dBm	+/-3dB
	MCS15	-75 dBm	+/-3dB

AVG. CURRENT CONSUMPTION INFORMATION

MODE	6Mbps	MCS0	MCS15
100% TX	1.25A	1.25A	0.80A
Real-World*	0.75A	0.80A	0.35A
Idle	0.30A	0.30A	0.30A

MODE	6Mbps	MCS0	MCS15
100% TX	1.25A	1.25A	0.80A
TCP/IP	0.75A	0.80A	0.35A
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

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