SR71-E

Hi-Power 802.11n PCI-E Module

CARD INFORMATION	
Wireless Chipset	Atheros AR9280 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

	DataRate	Avg. TX	Tolerance
11b/g	1-24Mbps	26 dBm	+/-2dB
	36Mbps	24 dBm	+/-2dB
	48Mbps	22 dBm	+/-2dB
	54Mbps	20 dBm	+/-2dB
2.4GHz 11n HT20	MCS0	26 dBm	+/-2dB
	MCS1	26 dBm	+/-2dB
	MCS2	26 dBm	+/-2dB
	MCS3	25 dBm	+/-2dB
	MCS4	24 dBm	+/-2dB
	MCS5	23 dBm	+/-2dB
	MCS6	21 dBm	+/-2dB
	MCS7	19 dBm	+/-2dB
	MCS8	26 dBm	+/-2dB
	MCS9	26 dBm	+/-2dB
	MCS10	26 dBm	+/-2dB
	MCS11	25 dBm	+/-2dB
	MCS12	24 dBm	+/-2dB
	MCS13	23 dBm	+/-2dB
	MCS14	21 dBm	+/-2dB
	MCS15	19 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	-98 dBm	+/-3dB
	MCS9	-97 dBm	+/-3dB
	MCS10	-94 dBm	+/-3dB
	MCS11	-92 dBm	+/-3dB
	MCS12	-88 dBm	+/-3dB
	MCS13	-85 dBm	+/-3dB
	MCS14	-79 dBm	+/-3dB
	MCS15	-76 dBm	+/-3dB

OPERATING FREQUENCY 5745MHz-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	20 dBm	+/-2dB
	MCS7	17 dBm	+/-2dB
	MCS8	24 dBm	+/-2dB
	MCS9	24 dBm	+/-2dB
	MCS10	24 dBm	+/-2dB
	MCS11	22 dBm	+/-2dB
	MCS12	22 dBm	+/-2dB
	MCS13	22 dBm	+/-2dB
	MCS14	20 dBm	+/-2dB
	MCS15	17 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	-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	-98 dBm	+/-3dB
	MCS9	-97 dBm	+/-3dB
	MCS10	-94 dBm	+/-3dB
	MCS11	-92 dBm	+/-3dB
	MCS12	-88 dBm	+/-3dB
	MCS13	-85 dBm	+/-3dB
	MCS14	-79 dBm	+/-3dB
	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

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