



SR71-C

World's First Hi-Power 11n PCMCIA/Cardbus Radio



| CARD INFORMATION | | | | | | | |
|--------------------------------------|----------|---------|-----------|-------------------------------------------------------------------|----------|-------------|-----------|
| Wireless Chipset | | | | Atheros AR9220 with DFS SUPPORT | | | |
| Radio Operation | | | | IEEE 802.11a/b/g/n | | | |
| Interface | | | | PCMCIA / Cardbus Type II | | | |
| Operation Voltage | | | | 3.3VDC | | | |
| Antenna Ports | | | | (2) MMCX for 2x2 MIMO Operation | | | |
| Temperature Range | | | | -20C to +70C | | | |
| 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 | 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 5745MHz-5825MHz | | | | | | | |
| 5GHz TX POWER SPECIFICATIONS | | | | 5GHz RX SPECIFICATIONS | | | |
| | DataRate | Avg. TX | Tolerance | | DataRate | Sensitivity | Tolerance |
| 11a | 1-24Mbps | 20 dBm | +/-2dB | 11a | 1-24Mbps | -96 dBm | +/-3dB |
| | 36Mbps | 18 dBm | +/-2dB | | 36Mbps | -95 dBm | +/-3dB |
| | 48Mbps | 16 dBm | +/-2dB | | 48Mbps | -94 dBm | +/-3dB |
| | 54Mbps | 15 dBm | +/-2dB | | 54Mbps | -91 dBm | +/-3dB |
| 5GHz 11n | MCS0 | 20 dBm | +/-2dB | 5GHz 11n | MCS0 | -96 dBm | +/-3dB |
| | MCS1 | 20 dBm | +/-2dB | | MCS1 | -95 dBm | +/-3dB |
| | MCS2 | 20 dBm | +/-2dB | | MCS2 | -92 dBm | +/-3dB |
| | MCS3 | 18 dBm | +/-2dB | | MCS3 | -90 dBm | +/-3dB |
| | MCS4 | 18 dBm | +/-2dB | | MCS4 | -86 dBm | +/-3dB |
| | MCS5 | 18 dBm | +/-2dB | | MCS5 | -83 dBm | +/-3dB |
| | MCS6 | 13 dBm | +/-2dB | | MCS6 | -77 dBm | +/-3dB |
| | MCS7 | 11 dBm | +/-2dB | | MCS7 | -74 dBm | +/-3dB |
| | MCS8 | 20 dBm | +/-2dB | | MCS8 | -95 dBm | +/-3dB |
| | MCS9 | 20 dBm | +/-2dB | | MCS9 | -93 dBm | +/-3dB |
| | MCS10 | 18 dBm | +/-2dB | | MCS10 | -90 dBm | +/-3dB |
| | MCS11 | 16 dBm | +/-2dB | | MCS11 | -87 dBm | +/-3dB |
| | MCS12 | 16 dBm | +/-2dB | | MCS12 | -84 dBm | +/-3dB |
| | MCS13 | 13 dBm | +/-2dB | | MCS13 | -79 dBm | +/-3dB |
| | MCS14 | 13 dBm | +/-2dB | | MCS14 | -78 dBm | +/-3dB |
| MCS15 | 11 dBm | +/-2dB | MCS15 | -75 dBm | +/-3dB | | |
| AVG. CURRENT CONSUMPTION INFORMATION | | | | | | | |
| MODE | 6Mbps | MCS0 | MCS15 | MODE | 6Mbps | MCS0 | MCS15 |
| 100% TX | 1.00A | 1.00A | 1.00A | 100% TX | 1.00A | 1.00A | 0.60A |
| Real-World* | 0.65A | 0.70A | 0.35A | Strength | 0.55A | 0.55A | 0.40A |
| Idle | 0.25A | 0.25A | 0.25A | Idle | 0.25A | 0.25A | 0.25A |
| ANTENNA INFORMATION | | | | | | | |
| Antenna 1 (included) | | | | 5dBi MMCX Omni with laptop mount and 12cm cable | | | |
| Antenna 2 (included) | | | | 5dBi MMCX Omni with laptop mount and 18cm cable | | | |
| RANGE PERFORMANCE | | | | | | | |
| Indoor (Antenna Dependent): | | | | Up to 300meters | | | |
| Outdoor (Antenna Dependent): | | | | Over 10km | | | |
| DRIVER INFORMATION | | | | | | | |
| Operating System Support | | | | WinXP, WinVista | | | |
| *Using large file FTP transfer. | | | | | | | |

