



XR1

*Powerful 802.11 Non Line of Sight Radio Module
Designed for Metering Applications*

CARD INFORMATION							
Chipset	Atheros, 6th Generation, AR5414 with Super Features Support						
Radio Operation	OFDM; 802.11 Based MAC/PHY						
Interface	32-bit mini-PCI Type III						
Operation Voltage	3.3VDC						
Antenna Ports	Single MMCX						
Temperature Range	-45 to +85C (extended temp version up to +95C)						
Security	WPA, WPA2, AES-CCM & TKIP Encryption, 802.1x, 64/128/152bit WEP						
Data Rates	6Mbps, 9Mbps, 12Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps						
TX Channel Width Support	5MHz / 10MHz / 20MHz / 40MHz						
RoHS Compliance	YES						
FREQUENCY RANGE							
180MHz-280MHz (Bandwidth / SW Channels Customizable per Requirement)							
RADIO PERFORMANCE							
TX SPECIFICATIONS				RX SPECIFICATIONS			
	DataRate	Avg.Power	Tolerance		DataRate	Sensitivity	Tolerance
802.11a OFDM	6Mbps	28 dBm	+/-1.5dB	802.11a OFDM	6Mbps	-92 dBm	+/-1.5dB
	9Mbps	28 dBm	+/-1.5dB		9Mbps	-90 dBm	+/-1.5dB
	12Mbps	28 dBm	+/-1.5dB		12Mbps	-89 dBm	+/-1.5dB
	18Mbps	28 dBm	+/-1.5dB		18Mbps	-88 dBm	+/-1.5dB
	24Mbps	28 dBm	+/-1.5dB		24Mbps	-84 dBm	+/-1.5dB
	36Mbps	26 dBm	+/-1.5dB		36Mbps	-81 dBm	+/-1.5dB
	48Mbps	24 dBm	+/-1.5dB		48Mbps	-75 dBm	+/-1.5dB
	54Mbps	22 dBm	+/-1.5dB		54Mbps	-73 dBm	+/-1.5dB
ADJUSTABLE CHANNEL SIZE SUPPORT (Increase Channel Capacity or Increase Throughput)							
5MHz		10MHz		20MHz		40MHz (Turbo)	
CURRENT CONSUMPTION INFORMATION							
TX CURRENT CONSUMPTION				RX CURRENT CONSUMPTION			
	DataRate	Current	Tolerance		DataRate	Current	Tolerance
802.11a OFDM	6Mbps	1.20 A	+/-100 mA	802.11a OFDM	6Mbps	400 mA	+/-100 mA
	9Mbps	1.20 A	+/-100 mA		9Mbps	400 mA	+/-100 mA
	12Mbps	1.20 A	+/-100 mA		12Mbps	400 mA	+/-100 mA
	18Mbps	1.20 A	+/-100 mA		18Mbps	400 mA	+/-100 mA
	24Mbps	1.20 A	+/-100 mA		24Mbps	400 mA	+/-100 mA
	36Mbps	1.00 A	+/-100 mA		36Mbps	400 mA	+/-100 mA
	48Mbps	0.80 A	+/-100 mA		48Mbps	400 mA	+/-100 mA
	54Mbps	0.70 A	+/-100 mA		54Mbps	400 mA	+/-100 mA
RANGE PERFORMANCE							
Indoor (Antenna Dependent):				Up to 1000meters			
Outdoor (Antenna Dependent):				Over 50km			
DRIVER INFORMATION							
Operating System Support				Linux MADWIFI, WindowsXP, Windows2000			
Advanced Mobility / QuickHandoff				WindowsXP/2000 Utility with Enhanced Mobility Driver from Ubiquiti			
Cisco Support				CCX 4.0 Supported Driver/Utility also available from Ubiquiti			

