



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			

