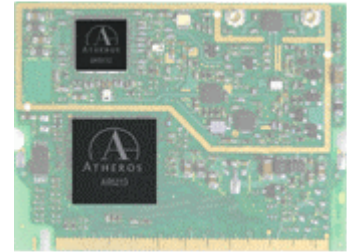


**IEEE 802.11a/b/g Wireless Mini-PCI Module**

PCD Global partners with world-class manufacturers and leading chip-set suppliers, to offer the latest technology solutions encompassing IEEE 802.11xx standards.

Our 802.11a/b/g Wireless Mini-PCI Module is based on the Atheros AR5004x chip set which includes the AR5213 - Multiprotocol MAC/baseband processor, along with the AR5112 - 2.4/5 GHz dual band Radio-on-a-chip.



**AR5004X Chipset Specifications**

Frequency Band	4.900 to 5.850 GHz and 2.300 to 2.500 GHz	
Network Standard	802.11a, 802.11b, 802.11g	
Modulation Technology	OFDM with BPSK, QPSK, 16 QAM, 64 QAM; DBPSK, DQPSK, CCK	
FEC Coding Rates	1/2, 1/3, 1/4	
Hardware Encryption	AES, TKIP, WEP	
Quality of Service	802.11e draft	
Media Access Technique	CSMA/CA	
Host Interface	Mini PCI	
<b>Communication</b>		
Peripheral Interface	GPIOs, LEDs	
Memory Interface	EEPROM	
<b>Supported Data Rates</b>		
IEEE 802.11a, 802.11b, 802.11g Standard Mode	1 to 54 Mbps	
Atheros Super A/G Mode	Up to 108 Mbps – This feature is not supported in the T60H835.00 module.	
<b>Chip Specifications</b>	AR5112	AR5213
Operating Voltage	2.5V +/-5%	1.8V +10%, -5%
	3.3V +/-10%	3.3V +/-10%

**IEEE 802.11a/b/g Wireless Mini-PCI Module**

<b>Specifications</b>		<b>802.11a</b>	<b>802.11g</b>	<b>802.11b</b>
<b>Output Power (dBm)</b>	54Mbps	11dBm	13dBm	
	48Mbps	13dBm	15dBm	
	24Mbps	17dBm	18dBm	
	6Mbps	17dBm	18dBm	
	11Mbps			19dBm
	5.5Mbps			19dBm
	2Mbps			19dBm
	1Mbps			19dBm
	<b>Receive Sensitivity (dBm)</b>	54Mbps	-72dBm	-73dBm
48Mbps		-75dBm	-75dBm	
24Mbps		-82dBm	-82dBm	
6Mbps		-90dBm	-90dBm	
11Mbps				-87dBm
5.5Mbps				-90dBm
2Mbps				-91dBm
1Mbps				-92dBm
<b>Power Consumption (W)</b>		Sleep mode	?	?
	Idle mode	250mA	250mA	250mA
	Rx mode	280mA	280mA	250mA
	Tx mode	360mA	360mA	360mA

<b>Operating System Support / Drivers</b>	Windows XP / 2000 / ME / 98SE / NT
<b>WHQL</b>	Windows XP / 2000
<b>Security</b>	WEP ( 64 / 128 / 152 ) bit WPA – Wi-Fi Protected Access TKIP – Temporal Key Integrity Protocol AES – Advanced Encryption Standard
<b>802.11e*</b>	After ratified
<b>802.11i*</b>	After ratified
<b>Interface</b>	Mini-PCI Type III
<b>Antenna Connector</b>	Dual diversity Antenna connectors (2 UFL type)
<b>Dimensions (WxLxH)</b>	59.6mm x 44.45mm x 4.8mm