

W4080PCIX - 802.11a/b/g Wireless PCI Express Module

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

The W4080PCIX 802.11a/b/g Wireless PCI Express (1.0a) Module incorporates the Atheros AR5423 (Single-Chip CMOS MAC/Baseband/Radio), and supports Atheros XR™ eXtended Range Technology. Lead-Free.



AR5006EX Chipset Specifications (AR5423)

Frequency Band	5 GHz and 2.4 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, 2/3, 3/4	
Hardware Security	AES, TKIP, WEP, 802.11i / WPA2	
Quality of Service	802.11e draft	
Host Interface	PCI Express	
Peripheral Interface	GPIOs, LEDs	
Supported Data Rates		
IEEE 802.11a, 802.11g	6 to 54 Mbps	
IEEE 802.11b	1 to 11 Mbps	
Chip Specifications	AR5423	
Operating Voltage	1.8V +/-5% 3.3V +/-10%	Vcc Module is 3.3V +/- 10%
Operating Temperature	0C to +70C (-40C to +70C storage)	

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Specifications		802.11a	802.11g	802.11b
TX Power (dBm)				
	Typical	18dBm	18dBm	18dBm
	Turbo Mode	n/a	n/a	n/a
Transmitted Spectrum (dBr)	11MHz offset	-20 Max	-20 Max	-30 Max
dB relative to sin(x)/x peak	20MHz offset	-28 Max	-28 Max	-50 Max
	30MHz offset	-40 Max	-40 Max	
Frequency Range (MHz)		5150 - 5850	2412 - 2472	2412 - 2484
Receive Sensitivity (dBm)				
@ 11a 54Mbps 108Mbps PER < 10%		-65dBm Min		
@ 11g 54Mbps PER < 10%			-65dBm Min	
@ 11b 11Mbps PER < 8%				-82dBm Min
@ Turbo Mode 108Mbps PER < 10%		n/a	n/a	n/a
Antenna Port Impedance	50 ohms (Typ)			
Power Consumption (W)	Sleep mode	20mA	20mA	20mA
	Rx mode	280mA	280mA	270mA
	Tx mode	550mA	550mA	560mA

Operating System Support / Drivers	Windows XP / 2000
WHQL	Windows XP / 2000
Security	WEP (64 / 128 / 152) bit WPA2 – Wi-Fi Protected Access TKIP – Temporal Key Integrity Protocol AES – Advanced Encryption Standard
802.11e*	Draft
802.11i*	After ratified
Interface	PCI Express 1.0a compliant
Antenna Type	Internal diversity with connectors
Dimensions (WxLxH)	__mm x __mm x __mm