



- Wireless connect two or more PCs for Home or Office
- Share internet access and peripherals through Access Point
- Play multi-players games and share files easily
- Super G™ and Super A/G™ deliver wired speeds with backward compatibility
- Wake on Wireless LAN (for PC-OEM)
- Fully interoperability, feature, and regulatory certification
- 802.1x, AES-CCM & TKIP, Power Saving Mode
- 64/128/152-bit WEP Encryption
- Fully WHQL Testing
- Wi-Fi Compliant

WLAN 802.11a/b/g mini-PCI Module

CM9

SPECIFICATION

Frequency Range	USA: 2.400 – 2.483GHz, 5.15 ~ 5.35GHz, 5.725 ~ 5.825GHz Europe: 2.400 – 2.483GHz, 5.15~ 5.35GHz, 5.47 ~ 5.725GHz Japan: 2.400 – 2.483GHz, 4.90 – 5.091GHz, 5.15 – 5.25GHz China: 2.400 – 2.483GHz, 5.725 ~5.85GHz		
Modulation Technique	802.11b/g: DSSS (DBPSK, DQPSK, CCK); OFDM (BPSK,QPSK, 16-QAM, 64-QAM) 802.11a: OFDM(BPSK,QPSK, 16-QAM, 64-QAM)		
Host Interface	Mini-PCI form factor; Mini-PCI Version 1.0 type 3B		
Channels Support	802.11b/g US/Canada: 11 (1 ~ 11) Major European country: 13 (1 ~ 13) France: 4 (10 ~ 13) Japan: 11b: 14 (1~13 or 14th), 11g: 13 (1 ~ 13) China: 13 (1 ~ 13) 802.11a 1). US/Canada:12 non-overlapping channels (5.15 ~ 5.35GHz, 5.725 ~ 5.825GHz) 2). Europe: 19 non-overlapping channel (5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz) 3). Japan: 4 non-overlapping channels (5.15 ~ 5.25GHz) 4). China : 5 non-overlapping channels (5.725 ~ 5.85GHz)		
Operation Voltage	3.3V +/- 5%		
Power Consumption	802.11a	802.11b	802.11g
	FTP Tx : 420mA	430mA	410mA
	FTP Rx : 300mA	310mA	310mA
	Standby mode: 260mA	250mA	270mA
	Power saving mode: 50mA	50mA	50mA
	RF Kill : 40mA	40mA	40mA
Output Power	802.11b: 18 dBm 802.11g: 18dBm @6Mbps; 15dBm @54Mbps 802.11a: 17dBm @6Mbps; 13dBm @54Mbps		
Operation Distance (depend on antenna performance)	802.11a: Outdoor: 85m@54Mbps, 300m@6Mbps Indoor: 20m@54Mbps, 40m@6Mbps 802.11b: Outdoor:300m@11Mbps, 400m@1Mbps Indoor: 30m@11Mbps, 50m@1Mbps 802.11g: Outdoor: 80m@54Mbps, 300m@6Mbps Indoor: 15m@54Mbps, 35m@6Mbps		
Operation System Supported	Windows® 98SE, ME, 2K, XP		
Dimension	59.75mm(L) * 44.60mm (W) * 5mm (H)		
Security	- 64-bit,128-bit, 152-bit WEP Encryption - 802.1x Authentication - AES-CCM & TKIP Encryption		
Operation Mode	Infrastructure & Ad-hoc mode		
Transfer Data Rate	802.11b/g: 11, 5.5, 2, 1 Mbps, auto-fallback, up to 54 Mbps 802.11g (Super mode): up to 108 Mbps 802.11a (Normal mode): 54, 48, 36, 24, 18, 12, 9, 6Mbps, auto-fallback 802.11a (Turbo mode): 108,96,72,48,36,24,18,12 Mbps, auto-fallback		
Operation Temperature	0°C ~ 70°C		
Storage Temperature	-20°C ~ 80°C		
Wi-Fi Alliance	WECA Compliant		
WHQL	Microsoft® XP Compliant		
FAA	S/W audio On/Off support		
EMC Certificate	FCC part 15 (USA), with multiple e-Antenna Telec (Japan), with multiple e-Antenna		
Media Access Protocol	CSMA/CA with ACK architecture 32-bit MAC		
Antenna Connector	2 x SMT Ultra-miniature coaxial connectors		