



CM9 802.11 a/b/g

Specifications

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 Supported:	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 18dBm 802.11g 18dBm @6Mbps 15dBm @54Mbps 802.11a 17dBm @6Mbps 13dBm @54Mbps		
Operation distance (depends 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		
Receive Sensitivity :	802.11a -88dB@6Mbps, -87dB@9Mbps, -85@12Mbps, -83dB@18Mbps, -80dB@24Mbps, -75dB@36Mbps, -73dB@48Mbps, -71dB@54Mbps 802.11b -95dB@1Mbps, -94dB@2Mbps, -92dB@5.5Mbps, -90dB@11Mbps 802.11g -90dB@6Mbps, -89dB@9Mbps, -87@12Mbps, -85dB@18Mbps, -82dB@24Mbps, -79dB@36Mbps, -76dB@48Mbps, -74dB@54Mbps		
Operating Systems 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 :
Storage Temperature : -20 ~ 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 UFL Ultra-miniature coaxial connectors