

WL-571 Dual Band WLAN Adapter



- **PCMCIA Type II CardBus**
- **Fully compliant with Wi-Fi 802.11a/b Access Point**
- **Plug-and-Play installation**
- **Supports 802.11a standard data rate and proprietary techniques to exceed 54 Mbps**
- **Maximizes security protection with scalable WEP encryption: 152-bit to 128-bit and 64-bit WEP**

GemTek WL-571 Wireless LAN PCMCIA card offers high-speed wireless connection, up to 11Mbps for 802.11b and 54Mbps for 802.11a. It also supports full mobility and seamless roaming from cell to cell wherever it's in 2.4GHz wireless LAN or in 5GHz wireless LAN.

Gemtek offers WLAN users the convenience of using their preferred frequency whenever they need it. Whether operating on the recent IEEE 802.11a 5GHz for high-speed resolution or the popular IEEE 802.11b 2.4GHz for mass access, WL-571 provides the power to manage bandwidth efficiently.

Gemtek's dual band PC card solution also offers an easy upgrade path for expanding available bandwidth. Building upon the inherent high quality of 802.11a operations in the interference-free 5-GHz band, Gemtek's dual mode WLAN PC card opens the door to the wide-scale deployment of wireless networks.



General Specifications

Product Name 54 Mbps/ 11Mbps Wireless LAN PC Card	Dimensions 120 mm x 54 mm x 14 mm
Model Number WL-571	Weight 42g
Media Access Protocol CSMA/CA with ACK	Temperature Range 0 65 (operating), -40 85 (storing)
Management Utility Configuration Utility for network join and site survey tools (Multilanguage User Interface)	Humidity Max. 90% non-condensing
Supplied Driver Windows 98SE/ME/2000/XP	Power Consumption 802.11a Max. 2W 802.11b Max. 2W
LED Indicators Power ; Network link	Support Protocol TCP/IP, IPX, NDIS4, and NDIS5, NDIS 5.1
Operating Voltage 3.3V ± 10%	Operating Range Open Space: 100-300m; Indoor: 30-100m The transmission speed varies in the surrounding environment.
IEEE 802.11b/a Roaming Seamless roaming among 802.11a,b,a/b Wi-Fi compliant access points	

	802.11a 5GHz	802.11b 2.4GHz
Frequency Range	5.15GHz to 5.85GHz Unlicensed National Information Infrastructure (U-NII) frequency band (subject to local regulations)	2.4GHz to 2.4835GHz ISM bandwidth (subject to local regulations)

Number of Channels	5.15	5.25GHz (lower band)	USA, Canada and Taiwan – 11; Japan – 14 (Defined by domain setting) Most European Countries – 13; France – 4
	5.25	5.35GHz (middle band)	
	5.725	5.825GHz (upper band)	
Data Rate	54, 48, 36,24,18,12, 9, 6 Mbps per channel		11Mbps, 5.5Mbps, 2Mbps and 1Mbps
Modulation	BPSK, QPSK, 16 QAM, and 64 QAM		CCK, DQPSK, and DBPSK
Tx Power	+17dBm		+16dBm
Rx Sensitivity Typical	6Mbps	10-5 BER @ -88 dBm,	1Mbps 10 ⁻⁵ BER@ -88dBm
	9Mbps	10-5 BER @ -86 dBm,	2Mbps 10 ⁻⁵ BER@ -86dBm
	12Mbps	10-5 BER @ -85 dBm	5.5Mbps 10 ⁻⁵ BER@ -83dBm
	18Mbps	10-5 BER @ -83 dBm,	11Mbps 10 ⁻⁵ BER@ -80dBm
	24Mbps	10-5 BER @ -80 dBm	
	36Mbps	10-5 BER @ -76 dBm	
	48Mbps	10-5 BER @ -71 dBm	
	54Mbps	10-5 BER @ -66 dBm	
Antenna	Internal Dual band antenna supporting diversity		
Security	64/128/152-bit WEP Encryption		