

WL-850F

802.11b/g mini-PCI Adapter

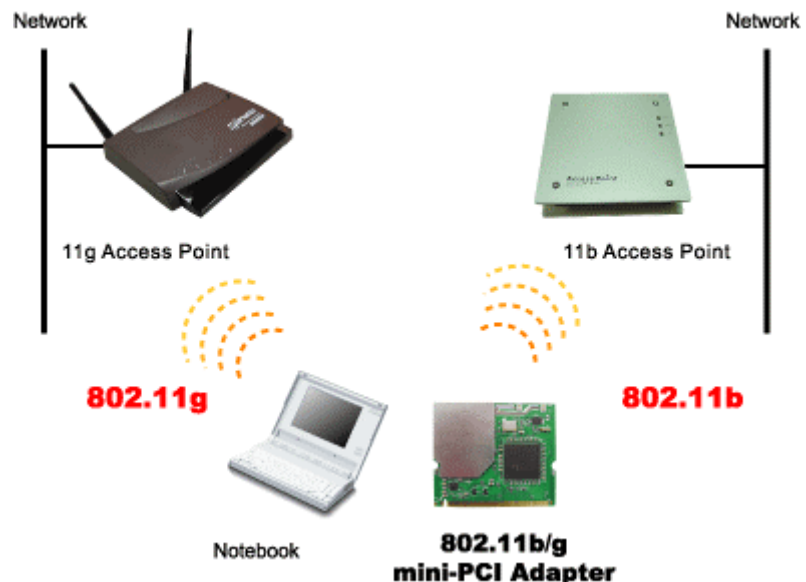


- **Mini-PCI Type III A Interface**
- **Highspeed connection in 22Mbps Standard**
- **Backward Compatible in a 802.11b environment**
- **Low-power consumption to support laptop or other embedded system**
- **Seamless roaming from cell to cell and between 802.11b to 802.11g**

Augmenting the first ever 54Mbps transmission on the 2.4GHz bandwidth, Gemtek is presenting to the WLAN community another high speed option that is backward compatible to the well accepted 802.11b WLAN technology.

In order to supplement the compatibility between 802.11b and 802.11g, Complementary Code Keying (CCK) is implemented to achieve the common bit transfer rate of 5Mbps. While Orthogonal Frequency Division Multiplexing (OFDM) is adopted by 802.11g for the high-speed transfer rate in a 2.4GHz range.

Gemtek's WL-850F fully utilizes the benefits of 802.11g standard draft on the proven compatibility between two transfer modes and the high speed bit transfer that is desirable for multimedia application in Wireless environment. Furthermore, a security rich software provides features such as WEP weak-key avoidance, TKIP, 802.11i, SSN and 802.1x while the hardware itself supported a 64/128 bit WEP engine and CCM and OCB AES.



General Specifications

Product Name Wireless LAN 2.4GHz 802.11b/g Dual Mode Mini-PCI Adapter	Network mode Infrastructure and Ad Hoc
Model Number WL-850F	Software support Windows XP, Windows SP1, Windows 2k, Windows ME, Windows 98S
Network Standards IEEE 802.11b and IEEE 802.11g draft	Configuration Utility Configuration tray & Zero configuration for WinXP
Frequency Range 2.412GHz~2.497GHz (subject to local regulations)	Security <ul style="list-style-type: none"> ● 64-bit or 128-bit WEP ● WEP weak-key avoidance ● TKIP ● AES engine support CCM &OCB,802.1x,SSN
Number of Channels 802.11b: USA, Canada and Taiwan – 11 Most European Countries – 13 France – 4 Japan – 14 802.11g: USA, Europe, and Japan -13	Antenna Internal Antenna with diversity support
Data Rate 802.11b: 11, 5.5, 2, 1Mbps 802.11g: 54, 48,36,24,18,12,9,6 Mbps	LED Indicators RF Activity and Radio State indicator
Modulation 802.11b: 11Mbps and 5Mbps – CCK 2Mbps – DQPSK 1Mbps – DBPSK 802.11g: OFDM	Power consumption Tx peak: 550 mA @ 3.3VDC Rx peak: 350 mA @ 3.3VDC; Idle: 225mA @ 3.3VDC Radio disabled: <10mA@3.3VDC
Transmit Power 15dBm (Maximum)	Dimension 59.7mm x 59.95mm x 3mm
Range Performance 802.11b: 11Mbps up to 180 m outdoor,60m indoors 802.11g: 54Mbps up to 50 m outdoor, 20m indoors *The performance various depend on environment.	Weight 18g
Host Interface Mini-PCI Type III A	Temperature Range 0~40°C (operating), -20~65°C (storing)
	Humidity 15%~95%
	Regulatory FCC part 15C/15.247and CE Mark ETS 300 328-2