

WPCB-143G

802.11b/g WLAN ExpressCard

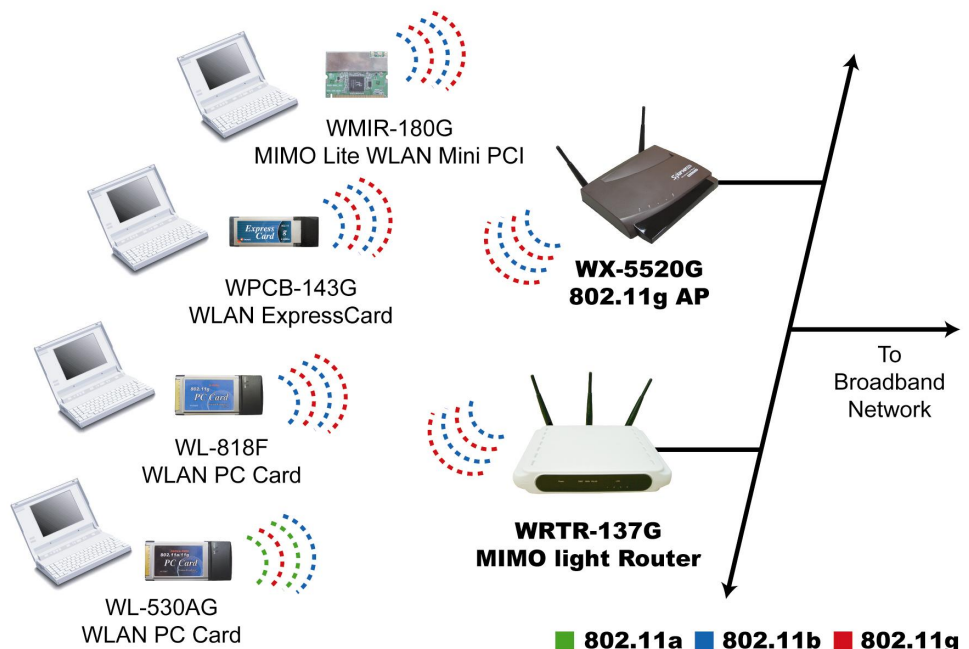


The WPCB-143G is the latest innovation of AirForce One™ 802.11 b/g wireless LAN client products designed for PCI Express™ card.

- **PCI Express interface** NEW
- **High-Speed Mode at 125 Mbps**
- **BroadRange™ technology improves the range of wireless LAN coverage throughout the home**
- **WPA, WPA2, and AES encryption/decryption coupled with TKIP and IEEE 802.1x support**
- **Seamless roaming from cell to cell and between 802.11b to 802.11g**

The device incorporates leading-edge BroadRange™ Digital Signal Processing technology for improved receive sensitivity, extending device range and enabling Wi-Fi® users to maintain high-speed wireless connections throughout the whole home. When operating in high-speed mode, the WPCB-143G delivers maximum throughput up to 40% greater than typical IEEE 802.11g systems, while maintaining interoperability with other non high-speed mode devices.

Interfacing to the host is provided by the PCI Express highspeed serial bus which supports x1 lane - running at 2.5 Gbps in each direction. Using the ExpressCard interface over the PCI bus has substantial benefits including better Quality of Service (QoS), Error Detection, Power Management, Hot Plug/Hot Swap capability.



General Specifications

Product Name Wireless LAN 2.4GHz 802.11b/g ExpressCard	Network mode Infrastructure and Ad Hoc
Model Number WPCB-143G	Software support Windows XP includes SP1 and SP2 Windows 2k
Network Standards IEEE 802.11b and IEEE 802.11g	Configuration Utility Configuration tray & Zero configuration for Window XP
Frequency Range 2.412GHz~2.497GHz (subject to local regulations)	Security 802.1x; WEP; WEP2; WPA, WPA2; TKIP; WEP128; Weak-key avoidance; CCX, CCX 2.0; 128-bit OCB mode AES, 802.11i
Number of Channels 802.11b: USA, Canada and Taiwan - 11 Most European Countries - 13 France - 4 Japan - 13 802.11g: 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 High-Speed: 125 Mbps	LED Indicators RF Activity Radio State Power on/off
Modulation 802.11b: 11Mbps and 5Mbps - CCK 2Mbps - DQPSK 1Mbps - DBPSK 802.11g: OFDM	Power consumption Tx peak: T.B.D. mA @ 3.3VDC Rx peak: T.B.D. mA @ 3.3VDC; Idle: T.B.D. mA @ 3.3VDC Radio disabled: < T.B.D. mA@3.3VDC
Maximum Transmit Power 802.11b: 18.5 dBm 802.11g: 15.5 dBm	Dimension Subject to ExpressCard Standard Update 1 to Release 1.0
Received Sensitivity -74 dBm @ 54 Mbps -86 dBm @ 11 Mbps	Weight T.B.D.
Range Performance Outdoor: 20 Mbps throughput up to 100 m 18 Mbps throughput up to 200 m 15 Mbps throughput up to 300 m *The performance various depend on environment.	Temperature Range 0~65°C(operating), -20~80°C (storing)
	Humidity 15%~95%
	Regulatory T.B.D.