PROLiNK®

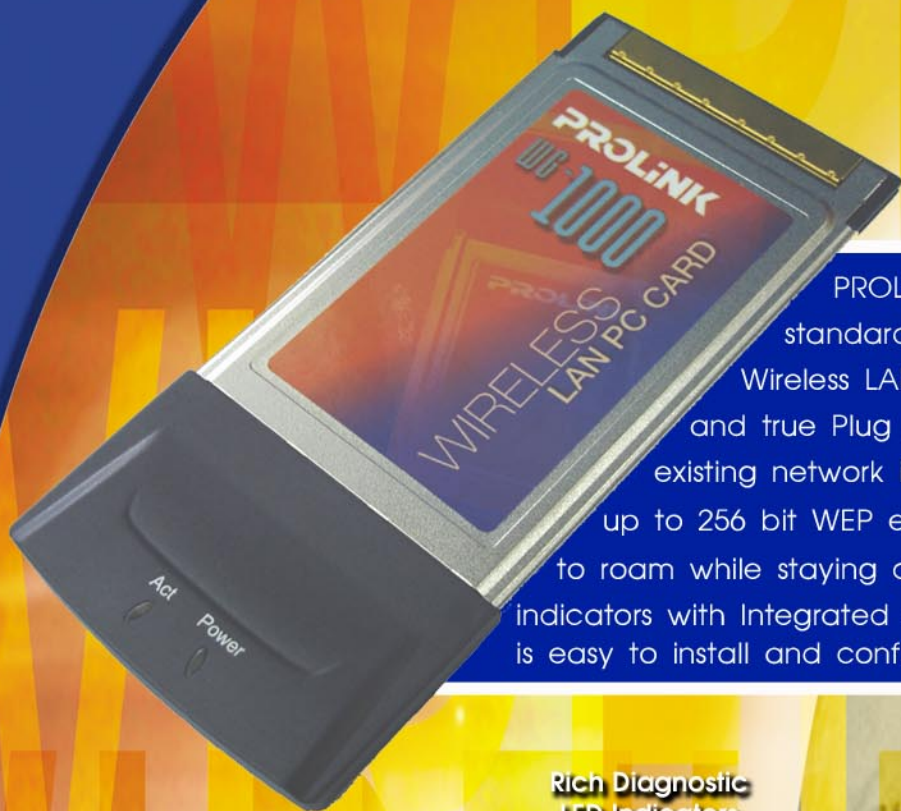## Challenge The Limit

WG1000

802.11g Wireless PC Card

PROLiNK WG1000 complies with IEEE 802.11b standard and draft standard 802.11g for 2.4GHz Wireless LAN. It also supports PC Card hot swap and true Plug & Play. In addition, it works well with all existing network infrastructure. WG1000 is also capable of up to 256 bit WEP encryption, providing you the freedom to roam while staying connected. Rich diagnostic LED indicators with Integrated Antenna are provided as well. WG1000 is easy to install and configure and offers lower power consumption.

Rich Diagnostic LED Indicators

802.11g High Speed 54Mbps WLAN Standard Compliant

- 802.11g High Speed 54Mbps WLAN Standard Compliant
- Easy to Install and Configure
- Backwards Compatible with 802.11b WLAN Standard
- Supports 64/128 bit WEP Encryption
- Hot Swappable 32 bit CardBus PC Card, Type II Compliant
- Easy Plug & Play
- Easy to Install and Monitor WLAN By Windows Based Utility
- Lower Power Consumption

PROLiNK®
Challenge The Limit

WG1000 802.11g WIRELESS PC CARD

Features

● Complies with IEEE802.11b standard and draft standard 802.11g for 2.4GHz Wireless LAN.

● Complies with Cardbus 7.0 specification.

● Supports PC Card hot swap and true Plug & Play.

● Works with all existing network infrastructure.

● Complies with specific wireless products and services.

● Capable of up to 256-Bit WEP Encryption.

● Freedom to roam while staying connected.

● 22-Mbps Packet Binary Convolution Coding (PBCC)(according to the IEEE Std 802.11b high-rate specification)

● Up to 54 Mbps may be provided in 802.11g mode of operation.

● Rich diagnostic LED indicators with Integrated Antenna.

● Complies with Windows98/2000/ME/XP.

● Lower power consumption.

● Easy to install and configure.

Specifications

Standards: IEEE 802.11b, IEEE 802.11g standard

Host Interface: 32Bit Cardbus interface

Antenna: Two antennas diversity supported

Frequency Range: 2.412GHz-2.4835GHz

Number of Selectable Channels: USA, Canada: 11 channels, Europe: 13 channel, Japan: 14 channels

Modulation Technique:
802.11b: Direct Sequence Spread Spectrum (PBCC, CCK, DQPSK, DBPSK)
802.11g: Orthogonal frequency division multiplexing

Data Rate:
802.11b: (22 Mbps, 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps)
802.11g: (54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)

Preamble:
802.11b: Both Short and Long preamble
802.11g: Long preamble only

Security: Hardware-Based Encryption/Decryption using 64-, 128-. and 256-Bit Wired-Equivalent Privacy (WEP) keys

Output Power: OFDM : 12 dBM (54Mbps)   CCK : 16 dBm (11Mbps)

Receiver Sensitivity: Meet 802.11b & 802.11g standard

Bit Error rate: Meet 802.11b & 802.11g standard

Media Access Protocol: CSMA/CA (Collision Avoidance) with ACK

Power Requirement: Operating Voltage: 3.3V
TX consumption mode: 520mA
Rx consumption mode: 425mA

Physical Specifications: Weight: 40g, Dimension: 114 (L) x 54(W) mm

Environment Specifications:
Operating Temperature: 0° - 65°C ambient temperature
Storage Temperature: -20°- 75°C ambient temperature
Operating humidity: 95% maximum (non-condensing)
Storage humidity: 95% maximum (non-condensing)

Supported OS: Windows 98; Windows ME; Windows 2000; Windows XP

EMC Certification: FCC Part 15 in US
En300328 and EN300826 (EN301489-17) in Europe

Specifications are subjected to change without prior notice