

# Chapter 1 Introduction

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The 802.11g SMB Wireless Access Point is 2.4GHz and up to 54Mbps wireless LAN access point. The 802.11g SMB Wireless Access Point can communicate with other mobile devices enabled for 802.11g standard-based wireless LAN connectivity. Using the card in conjunction with the 802.11g SMB Wireless Access Point, you can create a wireless network for sharing your broadband cable or DSL Internet access among multiple PCs in and around your home or office and enjoy amazing speed of 54Mbps.

This high-speed wireless device simultaneously supports both IEEE 802.11b and 802.11g wireless networks and lets you quickly network multiple PCs and notebooks without laying new cables, and gives users the freedom to roam throughout the workplace and stay connected to corporate resources, e-mail, and the Internet.

## *1-1 Features and Benefits*

- Technique operating in the unlicensed 2.4GHz ISM band.
- Delivers up to 54Mbps. Wireless nodes negotiate to operate in the optimal data transfer rate. In a noisy environment or when the distance between the wireless nodes is far, the wireless nodes automatically adjusts to operate at the optimal speed.
- Interoperable with IEEE 802.11g wireless devices.
- Provides the highest available level of WEP encryption: 64-bit, 128-bit, and 152-bit for 802.11g devices.
- Interfaces directly to IEEE 802.3 (10/100-BaseTX RJ-45 LAN port) Fast Ethernet networks.
- Supports 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, and 54 Mbps data rates.
- MAC Address Control provides increased security.