

airNIC

Wireless USB Client



*Wireless Broadband access to Internet
Simplicity that is making the waves*

INTRODUCTION

Broadband Internet access is fast becoming need of the hour. Network configuration complexities limit its effective proliferation as more and more people at home and office try to use it.

Wireless LANs bring the freedom of access to the Broadband Internet to everyone and everywhere within the home or office premises. These days the cost of implementing wireless LANs has fallen so that they have become more cost effective as compared with implementing their messy wired counterparts.

smartBridges has been developing technologies that go a step further in bringing the Wireless Broadband Internet within your reach, be it your home, your office or your enterprise. The complex task of establishing Network connectivity, which has long been considered as High-Tech wonder, gets reduced to just one-click and one plug-in.

airNIC™ - Wireless USB Client with one-click connection

airNIC™ is a wireless USB client. It simplifies the task of connecting computers to the network or to broadband Internet. The external airNIC™ Wireless USB Client connects directly to the USB port of the computer. The state-of-the-art hot Plug-and-Play technology ensures that there are no complicated installation procedures. airNIC™ draws its power from the USB port of the computer.

Comes with simpleConnect™

- The one-click installation software

smartBridges' proprietary software, simpleConnect™, simplifies the installation. The "One-Click Installation" technology built into simpleConnect™ reduces the total installation time to less than one minute. The software has won critical acclaim and has been extensively used by leading ISPs to reduce their customer supports costs for mass scale broadband installations.



LongRange™ Radio Performance that goes the Distance

airNIC™ features LongRange™ wireless design that provides High data throughput and long operating range. smartBridges' superior design of the radio receiver enhances the sensitivity to incredible -95 dBm level. This superior receiver characteristics results in the long-range wireless coverage of up to 600 meters (3/8 mile) at 11 Mbps of data rate in free open space. At a lower speed of 1Mbps, the range has been tested up to 1200 meters (3/4 mile). Better range translates directly into lower wireless infrastructure cost when the need is to cover a large area.

Industry Standard compliant for Inter-operability

airNIC™ is based on the IEEE 802.11b industry standard for Wireless LANs. Automatic radio tuning technology is used during manufacturing to ensure that the airNIC™ can inter-operate with any standard compliant device. airNIC™ has been tested for reliable operation with the wireless equipment from all leading manufacturers.

Enhanced Security to prevent eavesdropping

airNIC™ is equipped with a choice of security levels to protect the data. It comes with standard Wi-Fi prescribed Wired Equivalent Privacy (WEP) security using 40-bit Key. Additionally airNIC™ also offers enhanced 64-bit or 128-bit key encryption for superior data protection.

simpleMonitor™

The Intuitive Network Management Tool

airNIC™ is supported by simpleMonitor™, an advanced Management tool, which is specifically designed to simplify wireless network management complexities. It helps to easily manage the wireless-centric network parameters such as, Channel selection, Network association, data rate, and site survey.

Variety of Applications

One for Each Home PC

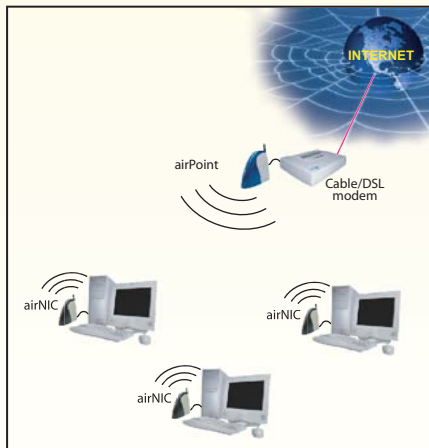
The airNIC™ can be used in variety of applications within Home & the office environments, providing ultimate flexibility and freedom. airNIC™ makes it easy to use Broadband Internet connection at home. There is no need to run any unsightly wires.

Corporate LAN Managers just love it

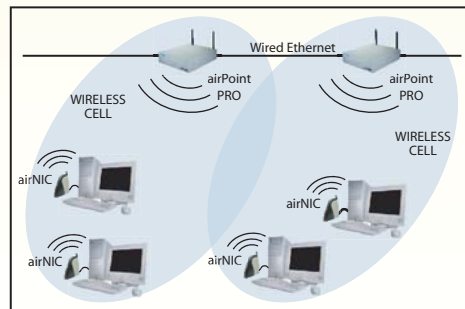
For office use, airNIC™ is designed to meet the mobility, performance, security & reliability requirements of wireless local area network within enterprise-wide information infrastructure. airNIC™ allows for ultimate convenience and mobility. It lets users freely roam around from one Access Point to another, all the while staying connected to the network with complete security.

Wireless Network for Visitors

In Hospitality world, business managers are required to meet the needs of business travelers for Internet connection everywhere. In many cases these guests do not carry their own wireless cards for accessing the hotel or Café's wireless Internet connection. airNIC™ is an ideal product to keep for such guests. It's quick to Install, doesn't need any external power and guests are less likely to forget to give it back as it is plugged outside their notebook computer, not inside like a fragile PCMCIA card.



SOHO Configuration



Enterprise Configuration

Technical Specifications

Product No: SB2000

Supported OS: Win98, WinME, Win2000, Windows XP and Linux

Supply Voltage: +5V (from USB Bus)

Power Consumption: Average 380mA; Max 410mA (Tx Mode)

Frequency Band: 2400 - 2483.5 MHz

No. of Channels: 14 Channels (Over laping)

Receiver Sensitivity: - 95 dBm

Data Rate:
 11Mbps - CCK
 Auto Fall Back 5.5 Mbps - CCK
 2Mbps - DQPSK
 1Mbps - DBPSK

Range: Outdoor Noise Free Open Space:

600 m (3/8 mile) at 11 Mbps

1200 m (3/4 mile) at 1 Mbps

Max Transmit Power: > 25 mW

Standards: IEEE 802.11b, USB 1.1

Security: 40 bit/ 64-bit & 128-bit encryption

LED Indicators: Power, Link, Transmission

Operating Temp: 0 to +40° C (operating)

Dimensions: L 122mm; W 42mm; H 118mm

Weight: 120 g

Features at a Glance

- Wireless Networking for Desktop computers
- Avoid opening the computer case and breaking the warranty seal.
- airNIC™ directly connects to the computer USB port.
- Long range coverage of up to 600 m / 1900 ft at full speed
- High speed data rate up to 11 Mbps
- High Level security with full 128 bit Key encryption
- Powered by One-Click simpleConnect™ Installation technology
- simpleMonitor™ software includes the signal strength meter for site survey
- Auto Fall back data rate for Long distance communication and Noisy environments
- Compatible with IEEE 802.11b standard
- Ad Hoc mode allows for simple peer to peer wireless networking
- Firmware is upgradable to protect your investment
- Comprehensive 1 Year Warranty

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Global Customer Support Center

We provide comprehensive technical support from our Internet website. Our technical support areas are regularly updated to provide the latest technical information. Please visit us on the Web: www.smartbridges.com or send an e-mail to: support@smartbridges.com



Applicable Product Certifications are provided on the user manual

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smartBridges - simplifying connectivity, delivering quality

smartBridges is a leading technology company that develops and manufactures Broadband and Wireless networking products. Our products and solutions focus on simplifying access to the Internet. smartBridges is growing rapidly across the globe driven by the demand for its products that have helped many Broadband ISPs and system integrators deliver extreme customer satisfaction.

Our commitment to quality runs deep through everything we do to insure that our solutions provide trouble free operation. Our products are extensively tested and qualification/certification test reports are available on demand for inspection to all our volume purchase customers. All our manufacturing operations are ISO 9001 certified.

Our Wireless LAN Range of Products

Our Wireless products enable trouble free and cost effective implementation of IEEE802.11b standard based Wireless LAN from end to end. Besides offering industry leading extended coverage due to the LongRange™ Radio technology, the products are extremely easy to install and operate using the smartBridges software that has been acclaimed for its 'one-click' simplicity.

airBridge™ - Wireless Ethernet Client

The airBridge™ is a versatile client for connecting any equipment with Ethernet port to the wireless network. It is also a unique solution for visitor based environments as no software drivers are required to be loaded on visitor's PC for wireless network access.



airNIC™ - Wireless USB Client

High performance wireless USB client that is extremely simple to install and provides industry leading receive sensitivity for cost effective wireless coverage of wide area.



airCard™ - Wireless PCMCIA Client

The airCard™ is a high quality wireless PCMCIA client designed for the Notebook computer user.



airPoint™ - Wireless Access Point (SOHO)

The airPoint™ is a high performance, long-range wireless access point. It provides effective coverage of a wide area due to its 20dBm output RF power and -95dBm receive sensitivity. Understanding the privacy needs of the SOHO users, airStation provides up to 128-bit WEP encryption.



airRoute™ - Wireless Router (Enterprise)

The airRoute™ is a powerful, comprehensive wireless Router. It offers the easiest means to share and extend high speed DSL/Cable modem Internet connection without any wires. The airRoute™ comes with many value added features that provide NAT, VPN, stateful firewall features. Optional software available for airRoute™ provide Zero Configuration for Visitor Based networks and AAA features for user authentication using RADIUS server as an option.



airPoint™ PRO - Wireless Access Point (Enterprise)

The airPoint™-PRO is an advanced Wireless Access Point designed to meet the performance, security, management and reliability requirements of wireless local area networks (WLANs) within the enterprise wide information infrastructures. The Access Point features built-in Power-over-Ethernet (PoE) and ceiling mount design module to simplify and optimize installation.

