



## Wireless 300N PCI Card

300 Mbps Wireless 802.11n, MIMO

Part No.: **523981**

Get the most from your wireless network for your desktop PC.

The Wireless 300N PCI Card is a compact high-speed adapter that allows you to connect your desktop computer to wireless networks at faster speeds than ever before. Now you can transfer or receive digital images, videos and MP3 files faster than ever, connecting to the wireless network with link speeds of up to 300 Mbps using the latest in Wireless technology. This adapter is also compatible with 802.11b and 802.11g wireless access points and wireless routers, giving you the flexibility to start upgrading your wireless network without the need to replace your existing equipment.

### Increased Throughput

The Wireless 300N PCI Card supports up to 300 Mbps network link speed\*, providing you with optimum throughput for your data networking applications. Whether you are downloading music, images or large text files, the Wireless 300N PCI Card, with its WMM-enhanced (IEEE 802.11e QoS standard) multi-media support, will optimize the performance of your wireless network, allowing you to spend your time more productively.

### Wireless Network Security

The Wireless 300N PCI Card provides advanced security encryption and decryption using industry standard techniques such as 64/128-bit WEP, WPA (TKIP with IEEE 802.1x) and WPA2 (AES with IEEE 802.1X), ensuring that your data is secure as it is sent through the wireless network.

### Increased Throughput

The Wireless 300N PCI Card features MIMO technology which increases the wireless transmission distance dramatically. This card is based on Wireless N 2T3R MIMO technology, which uses two antennas for transmitting and three antennas for receiving data.

### Compatible with 802.11b and 802.11g

The Wireless 300N PCI Card is fully downwards compatible with the IEEE 802.11b and 802.11g standards and can be used to connect to existing 802.11b/g routers and wireless access points. When an 802.11n enabled wireless network is in range, you can benefit from the increased throughput and range, which the Wireless N standard provides.

\* Actual data throughput will vary. Network conditions and environmental factors — including volume of network traffic, building materials and construction, and network overhead — lower the actual data throughput rate.

\*\* Environmental factors may adversely affect wireless signal range.

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## Features:

- Connects your desktop PC to a wireless network
- Up to 300 Mbps network link speed
- Advanced 2T3R MIMO technology for enhanced throughput and coverage
- Includes 3 detachable antennas with reverse SMA connector
- Supports WMM (Wi-Fi Multimedia) for increased multimedia data throughput
- Supports the most popular operating systems: Windows 2000, XP, Vista and Windows 7
- Supports Software AP function (turns your wireless client into a wireless access point)
- Complies with 2.4 GHz IEEE 802.11n standard and is backward compatible with IEEE 802.11g/b standards
- Use with INTELLINET NETWORK SOLUTIONS Wireless N WLAN products for best compatibility and performance
- Three-Year Warranty

## Specifications:

### Standards

- » IEEE 802.11b (11 Mbps Wireless LAN)
- » IEEE 802.11g (54 Mbps Wireless LAN)
- » IEEE 802.11n (300 Mbps Wireless LAN)

### General

- » Bus type: 32-bit PCI Card
- » Chipset: Ralink RT2860+RT2820
- » Frequency band: 2.4000 – 2.4835 GHz (Industrial Scientific Medical Band)
- » Modulation technologies:
  - 802.11b: Direct Sequence Spread Spectrum (DSSS): DBPSK, DQPSK, CCK
  - 802.11g: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM, 64QAM
  - 802.11n: Orthogonal Frequency Division Multiplexing (OFDM): BPSK, QPSK, 16QAM, 64QAM
- » Security:
  - 64/128-bit WEP data encryption
  - WPA and WPA2
  - Cisco CCX
- » Transmit power:
  - 300 Mbps OFDM, 15 dBm +/- 1 dBm
  - 54 Mbps OFDM, 15 dBm +/- 1 dBm
  - 11 Mbps CCK, 18 dBm +/- 1 dBm
- » Receive sensitivity:
  - 300 Mbps 20 MHz, -70.5 dBm
  - 300 Mbps 40 MHz, -67 dBm
  - 54 Mbps OFDM, -79 dBm
  - 11 Mbps CCK, -92 dBm
- » Maximum coverage distance: 100 m / 328 ft. (indoor), 600 m / 1,968 ft. (outdoor)
- » Antennas:
  - 3 detachable dipole antennas with RP-SMA connector and 2 dBi gain each
  - 2T3R MIMO mode (2 transmitter, 3 receiver)
- » Certification: FCC Class B, CE Mark

### Environmental

- » Weight: 0.275 kg (0.6 lbs.)
- » Operating temperature: 0 – 50°C (32 – 122°F)
- » Operating humidity: 10 – 95% RH, non-condensing
- » Storage temperature: -20 – 60°C (4 – 149°F)

### System Requirements

- » Desktop PC with Pentium 300 MHz-compatible processor or higher
- » Windows 2000/XP/2003/Vista and Windows 7
- » Available 32-bit PCI slot

### Package Contents

- » Wireless 300N PCI Card
- » 3 antennas
- » Setup CD and user manual



For more information on INTELLINET NETWORK SOLUTIONS products, consult your local dealer or visit [www.intellinet-network.com](http://www.intellinet-network.com).

