The D-Link AirPlus™ DWL-520+ is an enhanced speed wireless network PCI card desktop PCs. This card connects you to a 2.4GHz wireless LAN, giving you fast, secured mobile access to the network. It provides enhanced transmission speeds at up to 22Mbps, industry standard interoperability, strong 256-bit data security and ease of use for desktop PC users requiring fast, secure wireless network connection.

Enhanced Speed Transmission
At 22 Megabits per second, the DWL-520+ delivers high data transfer rate within the industry standard. This speed is double the 11Mbps normally found among IEEE 802.11b 2.4GHz wireless LAN devices.

Industry-standard Interoperability
With both WiFi™ certification compatibility and IEEE 802.11b wireless LAN industry standard compliance, the DWL-520+ adapter provides you with excellent network interoperability.

Network Security
Security is an issue when data is transmitted without the wires. In the air, transmitted data can be easily intercepted if not well protected by a security scheme. The DWL-520+ provides the necessary security, using the enhanced 64/128/256-bit industry-standard WEP (Wired Equivalent Privacy) encryption protocol. Data privacy mechanism is based on a shared key algorithm, as described in the wireless LAN standard.

Easy Installation
With PCI plug-and-play installation, the DWL-520+ can be easily installed into a desktop PC to provide connectivity directly to another 802.11b wireless enabled device (ad-hoc mode) or through an 802.11b Access Point (infra-structure mode).

Detachable Antenna
The DWL-520+ is equipped with an SMA reverse detachable dipole antenna with an effective range of 100 meters indoors, or 400 meters outdoors. Where a longer range is required, you can easily remove this antenna and replace it with a higher Gain antenna.

Features
- 802.11b+ industry standard compliance
- 2.4GHz frequency band Direct Sequence Spread Spectrum (DSSS)
- Up to 22Mbps enhanced data transfer rate
- 32-bit Bus Master data transfer with PC host
- Detachable SMA reverse dipole antenna
- Enterprise-level security with 64/128/256-bit WEP data encryption
- Supports Windows 98, 2000, ME, XP
- Wi-Fi™ compatibility certified
- 802.1x client authentication support in Windows XP environment
Technical Specifications

2.4 GHz Wireless LAN PCI Card

Data Rates
- 22 Mbps
- 11 Mbps
- 5.5 Mbps
- 2 Mbps
- 1 Mbps
- Auto fallback

Data Rate & Modulation
- 22Mbps: PBCC
- 11Mbps: PBCC or CCK
- 5.5Mbps: PBCC or CCK
- 2Mbps: Barker

Operating Channels
- North America (FCC): 11
- Canada (DOC): 11
- Europe (ETSI): 13 (Except Spain and France)
- Japan (MKK): 14

Sensitivity @ PER < 0.08
- 22Mbps: -80dBm (PBCC)
- 11Mbps: -84dBm (PBCC)
- 5.5Mbps: -86dBm (CCK)
- 2Mbps: -89dBm (CCK)
- 1 Mbps: -91dBm (CCK)

Frequency Range
2.4 - 2.4835 GHz

Modulation Techniques
- Direct Sequence Spread Spectrum (DSSS)
- Packet Binary Convolutional Coding (PBCC)
- 11-chip Barker Sequence

Key Management
Automatic Dynamic Key Allocation (ADKA) through public key

Data Security
64, 128, 256-bit WEP (Wired Equivalent Privacy) encryption

Antenna
Detachable 2dBi Gain dipole antenna (reverse SMA connector)

Mobility
Seamless roaming across cell boundaries within access point range

Transmitter Output Power
15dBm + 2dB

Over-Driving Levels
Tolerates up to +17dBm at the Antenna

Range Coverage (Open Environment)
- Indoors: Up to 100 meters (328 feet)*
- Outdoors: Up to 400 meters (1,312 feet)*

* Environmental factors may adversely affect operating range

Physical & Environmental
Diagnostic LEDs
- Power
- Link/Activity

Operating Voltage
3.3V ± 10%

Power Consumption
- Transmission: 650 mA (max.)
- Reception: 350 mA (max.)

Dimensions
133 (L) x 121 (W) x 18 (H) mm

Weight
77 grams (0.17 lb.)

Operating Temperature
0° - 55°C (32° - 131°F)

Storage Temperature
-30° - 70°C (-22° - 158°F)

Humidity
Up to 95%, non-condensing

Emission Certification
- FCC Class B
- CE Class B

Compatibility Certification
Wi-Fi

MBTF (Mean Time Between Failure)
> 30,000 hours

O.S. Support
Windows 98, 2000, ME, XP

Ordering Information

DWL-520+/NA
For North America frequency channels (worldwide type packaging)

DWL-520+/EU
For EU frequency channels (worldwide type packaging)

DWL-520+/CN
For EU frequency channels (packaging for China)