



## FEATURE MATRIX

# AirConnect® 11 Mbps Wireless LAN vs. 3Com® 11 Mbps Wireless LAN

### Part I—Detailed Feature Matrix

| <b>NIC Features</b>                     | <b>3Com® 11 Mbps Wireless LAN (Speed Racer 2.0)</b> | <b>3Com AirConnect® 11 Mbps Wireless LAN 2.0 (Trilogy 2.0)</b> | <b>3Com AirConnect 11 Mbps Wireless LAN 1.0/1.5 (Trilogy 1.0/1.5)</b> | <b>Benefits</b>  |
|---|---|--|---|--|
| Retractable Antenna                     | Yes, XJACK®   | No, Fixed  | No, Detachable  | Antenna extends for reception while in use and retracts back into the laptop while in transit.                           |
| Drivers                                 | Win 2K, Win 98, Win Me, Win NT 4.0, Win 95b         | Win 2K, Win 98, Win Me, Win NT 4.0, Win CE 2.11 & 3.0, Win 95b | Win 2K, Win 98, Win NT 4.0, Win CE 2.11, Win 95b                      |  |
| Power Save Protocol                     | Yes   | Yes  | Yes   | Adaptive or user selectable performance against power consumption.   |
| Ad-Hoc Mode                             | Yes   | Yes  | Upgradeable   | Client to Client instant temporary networks. Wi-Fi interoperable ad hoc.   |
| Ad-Hoc Clear Channel Select             | Yes   | No   | No  | Initiator of ad hoc session is automatically assigned to the clearest channel available.                                 |
| Software Tools Applet (Launcher)        | Yes   | Yes  | Yes   | Easy access to key wireless LAN NIC information.   |
| Signal Strength                         | Yes   | Yes  | Yes   | Indicates strength of RF signal for troubleshooting purposes.  |
| Firmware Upgrade                        | Yes   | Yes  | Yes   |  |
| Wireless Network Card Info              | Yes   | Yes  | Yes   |  |
| Site Survey Utility                     | Yes   | Yes  | Yes   | Assists in AP placement for optimal performance.   |
| Dynamic Rate Shifting                   | Automatic   | Automatic  | Automatic   | Automatically select the best transmit rate allowed by the distance between the NIC and AP.                              |
| Roaming                                 | Yes   | Yes  | Yes   | A notebook can roam among access points within the coverage area.  |
| Short Preamble Support                  | Yes   | Yes  | No  | Results in better throughput.  |
| Static IP and DHCP Support              | Yes   | Yes  | Yes   | Works in networks with or without DHCP servers.  |
| AP Discovery                            | Yes   | No   | No  | Allows a network administrator to discover all Wi-Fi APs within range and their network properties including IP address. |
| AP Management Tool (runs on the client) | Yes   | No   | No  | Allow a network administrator to discover and manage all APs on the network.   |
| Auto-Network Connect                    | Yes   | No   | No  |  |
| Any Mode                                | Yes   | No   | No  | Automatically connect the user to the nearest AP without having to know its ESSID.                                       |
| Auto IP Renew                           | Yes   | No   | No  | Validate and renew the client IP address automatically.  |
| Task bar status                         | Yes   | No   | No  | Can constantly monitor your network connection and card info.  |
| Warranty                                | 1 year  | 3 years  | 3 years   |  |

### Access Point Features

|                       |     |     |     |   |
|-----------------------|-----|-----|-----|---|
| Load balancing        | No  | Yes | Yes | New clients associate to a different AP if too many users are on one AP.  |
| Power over Ethernet   | Yes | Yes | Yes | The AP can be powered over the Ethernet cable when used with the PowerBaseT.  |
| Dynamic Rate Shifting | Yes | Yes | Yes | Throughput shifts from 11 to 5.5 to 2 to 1 Mbps to maintain connection even over long ranges and in noisy environments. |
| Rate Control          | No  | Yes | Yes | Rate Control options available in the AP to select Optional, Required or Not Used.                                      |
| AP DHCP Support       | Yes | Yes | Yes | The AP uses DHCP to obtain a leased IP address and network configuration information from a remote server               |

## AIRCONNECT® 11 MBPS WIRELESS LAN VS. 3COM® 11 MBPS WIRELESS LAN

| <b>Access Point Features, <i>continued</i></b>             | <b>3Com® 11 Mbps Wireless LAN (Speed Racer 2.0)</b> | <b>3Com AirConnect® 11 Mbps Wireless LAN 2.0 (Trilogy 2.0)</b> | <b>3Com AirConnect 11 Mbps Wireless LAN 1.0/1.5 (Trilogy 1.0/1.5)</b> | <b>Benefits</b>  |
|--|---|--|---|--|
| AP DHCP Server   | Yes   | No   | No  | Even if there's no DHCP server on your network you can automatically assign IP addresses.  |
| Device Filter/Access                                       | No  | Yes  | Yes   | The AP can keep a list of MAC addresses of the PC cards not allowed to associate with it.  |
| Protocol Filters   | No  | Yes  | Yes   | Packet types supported for the type filtering function include the 16-bit DIX Ethernet types.  |
| Roaming across routers<br>Extended Roaming (via Mobile IP) | No  | Yes  | Yes   | Keeps the same IP address as you move across routers so that any data or services from your home server will be forwarded to where you are.  |
| Auto Network Connect                                       | Yes   | No   | No  | Automatically gives the client a new IP address when they move across routers. Keeps you connected to the network without having to manually configure IP addresses.   |
| Clear Channel Select                                       | Yes   | No   | No  | AP will automatically scan spectrum and select clearest channel.   |
| AP Configuration   | HTTP (via client management tool)                   | Serial, Telnet, SNMP, HTTP, PPP                                | Serial, Telnet, SNMP, HTTP, PPP                                       | Supports the listed standards for corporate network management.  |
| Point-to-Point Bridge Mode                                 | No  | Yes  | Yes   | In WLAB mode, a wireless AP-to-AP connection functions as a bridge to connect two Ethernet networks.   |
| Wireless Repeating Mode                                    | No  | Yes  | Yes   | As a repeater to extend coverage area without additional network cabling. Each wireless AP can have connections with up to four other wireless APs.  |
| Simultaneous firmware upgrade                              | No  | Yes  | Yes   | Upgrade firmware on multiple AP's simultaneously   |
| Save and Load facility                                     | Yes   | No   | No  | Makes it easy to configure AP's on the network with the same setting.  |
| Sixty Second Setup   | Yes   | No   | No  | Take Ethernet cable, plug into AP and your AP is up and running. Excludes security setup.  |
| Number of recommended simultaneous users                   | 65  | 63   | 63  | Theoretically unlimited. Practically it is limited because it is a shared medium of 11 Mbps bandwidth. There is a hard limit of 256 users with Speed Racer if Dynamic Security Link is being used. Note: All competitor's products are also limited to the 11 Mbps shared bandwidth. |
| Range  | 330   | 330  | 300   |  |
| Warranty   | 1 year  | 3 years  | 3 years   |  |

### Security Features

|   |     |     |     |   |
|---|-----|-----|-----|---|
| 40 Bit Key (Shared)                               | Yes | Yes | Yes | Basic security—Wi-Fi interoperable. Encryption key is fixed.  |
| 128 Bit key (Shared)                              | No  | Yes | Yes | Extended security. Encryption key is fixed.   |
| Dynamic Security Link (128-bit Session Key)       | Yes | No  | No  | Virtually unbreakable security. Unique security key is generated for each client and each association. Supports up to 256 users per access point. |
| User Authentication (user name, password log on). | Yes | No  | No  | Network security—ensures that only authorized users can get onto the network.   |
| Password Protection: AP Configuration             | Yes | Yes | Yes | Prevents unauthorized users from configuring the AP.  |

### Standards and Interoperability

|                     |     |     |     |   |
|---------------------|-----|-----|-----|---|
| Wi-Fi certification | Yes | Yes | Yes | Ensures interoperability amongst other vendor's Wi-Fi certified products.         |
| 802.11b             | Yes | Yes | Yes | Supports standard protocol.   |
| Microsoft WHQL      | No  | Yes | Yes | Microsoft certification for driver (May not be available at initial product ship) |

## Part II—Differentiating feature summary

Designed for the small-to-medium enterprise market, the 3Com 11 Mbps Wireless LAN has many of the key features of the AirConnect solution. It also has a number of unique selling features which combine to make it our most simple, reliable and secure wireless LAN available. The 3Com 11 Mbps Wireless LAN should be

sold throughout the enterprise market except in situations where the customer needs SNMP, or if they have already standardized on the AirConnect solution and do not wish to create a mixed environment. The following are some of the key differentiating features for both solutions:

| 3Com 11 Mbps Wireless LAN (Speed Racer) | AirConnect 11 Mbps Wireless LAN (version 1.5 and 2.0) |
|---|---|
| XJACK antenna on PC card                | No  |
| Auto Network connect                    | No  |
| Dynamic Security Link                   | No  |
| Clear Channel Select                    | No  |
| 60 Second Setup                         | No  |
| No                                      | SNMP, Telnet, PPP , serial support                    |
| No                                      | Simultaneous AP firmware upgrade                      |
| No                                      | Mobile IP (when cross routers info is forwarded)      |

The 3Com 11 Mbps Wireless LAN PC card is designed to be our “best of breed” wireless LAN PC card. This Wi-Fi certified card will work with all of our existing wireless LAN solutions—the AirConnect wireless LAN access point and the 3Com Home Wireless Gateway. It will be priced slightly higher than the AirConnect PC card on account of the additional features it offers:

- XJACK antenna
- Auto Network Connect
- Dynamic Security Link
- User authentication (network login)

The 3Com 11 Mbps Wireless LAN PC card should be sold in all target markets—large enterprise, small-to-medium enterprise, home and the public access space—unless for some reason the customer has a preference for the AirConnect card. This may be the case if they:

- Have already standardized on the AirConnect solution and want to avoid a mixed environment

- Require a slightly less-expensive card with no XJACK antenna
- Have standardized on AirConnect’s 128-bit encryption
- Require support for Windows CE

### Pricing (list)

|  |       |
|--|-------|
| 3Com 11 Mbps Wireless LAN access point 6000          | \$699 |
| AirConnect 11 Mbps Wireless LAN access point         | \$995 |
| 2Com 11 Mbps Wireless LAN PC card with XJACK antenna | \$219 |
| AirConnect 11 Mbps Wireless LAN PC card              | \$199 |

### AirConnect 1.5 v. 2.0

Version 2.0 of AirConnect is designed to replace version 1.5. It contains the following improved features:

- Ad Hoc support for peer to peer networking without an access point
- An improved chipset for better throughput
- A robust fixed antenna design

## Part III—Positioning statements

### **AirConnect 11 Mbps Wireless LAN**

For large businesses that require SNMP and related network management tools.

### **3Com 11 Mbps Wireless LAN**

For all businesses that want an easy-to-setup and use, highly secure, wireless network.

### **3Com Home Wireless Gateway**

Wireless extension to your broadband modem for home and SOHO users.

### **AirConnect 11 Mbps wireless LAN (Code Name—Trilogy)**

The 3Com AirConnect 11 Mbps wireless LAN solution is for large enterprises who wish to improve productivity by providing location-independent network access throughout their company.

AirConnect provides these companies with network management tools and features like SNMP which allows administrators to use existing network management platforms to monitor a wide variety of network and wireless performance parameters. AirConnect also supports mobile IP allowing mobile users in large companies to roam across campus without losing their network connections.

### **3Com 11 Mbps wireless LAN (Code Name—Speed Racer)**

The 3Com 11 Mbps wireless LAN solution is for small-to-medium sized companies that wish to improve productivity by providing a cost effective networking solution either as an extension to their existing LAN or as their LAN of choice. As the most simple, reliable and secure solution available, the 3Com 11 Mbps wireless LAN comes with a 60-second install, higher levels of security and our innovative XJACK antenna.

### **3Com Home Wireless Gateway (Code Name—Daffy)**

The 3Com Home Wireless Gateway is ideal for laptop users who want untethered network access throughout their house and home-business users who wish to quickly and easily set up a network. It provides simple, yet full-featured Internet access and resource sharing for all your wired and wireless devices. Setup is simple with no drivers or software to install. Includes 3 wired Ethernet ports, a built-in firewall for protection and VPN support for easy access to the corporate network.

## Part IV—Compatibility matrix across platforms

| <b>InfraStructure Mode</b>        | <b>AirConnect<br/>11 Mbps Wireless<br/>LAN access point<br/>1.0 AP w/2.2<br/>f/w upgrd</b> | <b>AirConnect<br/>11 Mbps Wireless<br/>LAN access point<br/>2.0 AP</b> | <b>3Com 11 Mbps<br/>Wireless LAN<br/>access point 6000<br/>2.0 AP</b> | <b>3Com Home<br/>Wireless Gateway</b> |
|-----------------------------------|--|--|---|---------------------------------------|
| AC 1.0 PC Card                    |  |  |   |                                       |
| No Encryption                     | Yes  | Yes, AP Short-preamble off   | Yes   | Yes                                   |
| 40 bit Encryption                 | Yes  | Yes, AP Short-preamble off   | Yes   | Yes                                   |
| 128 bit Encryption                | Yes  | Yes, AP Short-preamble off   | No  | No                                    |
| AC 2.0 PC Card                    |  |  |   |                                       |
| No Encryption                     | Yes  | Yes  | Yes   | Yes                                   |
| 40 bit Encryption                 | Yes  | Yes  | Yes   | Yes                                   |
| 128 bit Encryption                | Yes  | Yes  | No  | No                                    |
| SR 2.0 PC Card                    |  |  |   |                                       |
| No Encryption                     | Yes  | Yes  | Yes   | Yes                                   |
| 40 bit Encryption                 | Yes  | Yes  | Yes   | Yes                                   |
| 128 bit Encryption                | No   | No   | Yes   | No                                    |
| AC 1.5 PCI Card                   |  |  |   |                                       |
| No Encryption                     | Yes  | Yes  | Yes   | Yes                                   |
| 40 bit Encryption                 | Yes  | Yes  | Yes   | Yes                                   |
| <b>Ad Hoc Mode</b>                |  |  |   |                                       |
| AC 1.0 PC Card<br>w/2.2 f/w upgrd |  |  |   |                                       |
| No Encryption                     | Yes, long preamble only  | Yes, long preamble only  | Yes   | Yes                                   |
| 40 bit Encryption                 | Yes, long preamble only  | Yes preamble only  | Yes   | Yes                                   |
| 128 bit Encryption                | Yes, long preamble only  | Yes, long preamble only  | No  | n/a                                   |
| AC 2.0 PC Card                    |  |  |   |                                       |
| No Encryption                     | Yes, long preamble only  | Yes  | Yes   | Yes                                   |
| 40 bit Encryption                 | Yes, long preamble only  | Yes  | Yes   | Yes                                   |
| 128 bit Encryption                | Yes, long preamble only  | Yes  | No  | n/a                                   |
| SR 2.0 PC Card                    |  |  |   |                                       |
| No Encryption                     | Yes  | Yes  | Yes   | Yes                                   |
| 40 bit Encryption                 | Yes  | Yes  | Yes   | Yes                                   |
| 128 bit Encryption                | No   | No   | Yes   | N/A                                   |
| AC 1.5 PCI Card                   |  |  |   |                                       |
| No Encryption                     | Yes  | Yes  | Yes   | Yes                                   |
| 40 bit Encryption                 | Yes  | Yes  | Yes   | Yes                                   |

# AIRCONNECT® 11 MBPS WIRELESS LAN VS. 3COM® 11 MBPS WIRELESS LAN

## Mixed Solutions, Limitations

| Support for . . .                               | Auto Network Connect |                       | Dynamic Security Link | Encryption |                    |
|---|----------------------|-----------------------|-----------------------|------------|--------------------|
|   | Any mode             | Auto IP release/renew | 128-bit session key   | 40-bit     | 128-bit shared key |
| Speed Racer access point and PC Card            | Yes                  | Yes                   | Yes                   | Yes        | No                 |
| Speed Racer access point and AirConnect PC Card | No                   | No                    | No                    | Yes        | No                 |
| AirConnect Access Point and Speed Racer PC Card | Yes                  | No                    | No                    | Yes        | No                 |



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