



# Madge WLAN Access Point 802.11b

Data Sheet  
Part Number 95-10

## Secure Wireless Connectivity for the Enterprise



- Enterprise class WLAN security and management
- 802.1x enabled
- Flexible management options
- Cost-effective and easy to use
- Firmware upgradeable

### Madge - a complete WLAN Solution

The business benefits of wireless networking are clear. As business practices evolve to meet the demands of today and tomorrow, the only business certainty is change. Wireless networking is now seen as an invaluable tool to gain a competitive advantage.

Madge provides a complete, scalable, standards-based WLAN solution for organisations planning to integrate a wireless network with their existing wired network.

In addition, Madge's WLAN intrusion detection products will identify authorized and unauthorized wireless activity, safeguarding vital corporate data from internal or external attack.

### The WLAN Access Point

The Madge WLAN Access Point creates a link between an organization's wired and 802.11b Wireless network and is used in conjunction with Madge WLAN PCI and PCMCIA Adapters.

Unlike home-market and SoHo products, the WLAN Access Point contains extra features that are required for Secure Enterprise Networking, including an SNMP management capability, 802.1x support, MAC Access Control Lists, Power over Ethernet, and a discovery protocol that enables full and simple integration with a management solution.

The WLAN Access Point utilizes 802.1x EAP-TLS to enable Mutual Certificate-based Authentication in conjunction with Madge WLAN Enterprise Access Server (part number 95-02), or with a third-party authentication server.

### Easy Configuration

The WLAN Enterprise Access Server can auto-discover and configure Madge WLAN Access Points, providing zero-configuration Security Policy enforcement, ensuring that only authorized clients gain access to the wired LAN.

Additionally, the WLAN Access Point can work in an "Open Access Mode", or "Simple WEP Key Mode" to allow easy (but less secure) access to public network resources, such as in a "hotspot" application. Here, the WLAN Access Point's "set and forget" robustness sets it apart from other Access Points.

### Comprehensive Management Tools

The device comes with a CDROM containing useful tools. For example, to facilitate the installation and management of the WLAN Access Point in an environment where there is no WLAN Enterprise Access Server, it is supplied with a Wireless Network Manager tool.

This software will automatically discover all Madge WLAN Access Points, and then allow the Network Manager to configure each one through a convenient GUI. All WLAN Access Points have built-in Web servers to allow individual configuration, but it is much easier to use the Wireless Network Manager when deploying more than two or three Access Points in a network.

A Wireless AP Browser tool allows the user to discover and list all the Madge Smart Wireless Access Points on the network, and see their IP addresses. It also allows firmware upgrades to be performed.

## Security Features

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### Encryption

64-bit and 128-bit WEP (Wired Equivalent Privacy). WEP keys can be generated per session. When used with the Madge WLAN Enterprise Access Server the client can be periodically forced to seamlessly re-authenticate in order to obtain new WEP keys.

### Authentication and Access Control

IEEE 802.1x EAP-TLS is used for Mutual client/server Authentication using digital certificates, in conjunction with a RADIUS (Remote Authentication Dial-In User Service) server. Encryption keys are securely and automatically distributed when the Access Point is used with the WLAN Enterprise Access Server.

### Access Control

SSID broadcasts can be disabled to prevent casual access by a client with a configuration setting for 'any' SSID. Inclusive or Exclusive MAC address based access control lists can be set up, which prevent unwanted or unknown clients from associating with the WLAN Access Point.

## Management

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### Interfaces

SNMP (Simple Network Management Protocol) MIB I, MIB II, IEEE 802.1d, IEEE 802.1x, Enterprise MIB.

### Utility Software

*Windows-based Wireless Network Manager* for configuring, monitoring, and diagnosing the local computer and neighbouring Access Points.

*Web-based Network Manager* for configuring and monitoring an Access Point. The management protocol is HTTP-based.

*UPnP*. The WLAN Access Point supports UPnP, so that a Windows XP user can locate the Access Point

in the 'My Network Places' dialog and use a Web browser to configure it.

### Auto Management

*Hardware Watchdog Timer* will detect erroneous situations and restart the WLAN Access Point in order to provide continuous service.

*Self-Test*. The WLAN Access Point can diagnose hardware problems by itself at start-up time.

*Configuration Reset*. Resetting the configuration settings to factory-set values.

### Firmware Upgradeable

Upgrading firmware by TFTP (Trivial File Transfer Protocol) or by Wireless Network Manager Utility.

For additional information on the Madge WLAN Access Point, WLAN Adapters and WLAN intrusion detection products, please visit [www.madge.com/wireless](http://www.madge.com/wireless)

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## Ordering Information

Part No	Madge WLAN Access Point
95-10	WLAN Access Point 802.11b

## Madge Wireless and Token Ring Networking

Madge Limited is a global supplier of advanced networking product solutions to enterprises, and is the market leader in Token Ring networking. Madge is pioneering next generation networking solutions, which enable the painless and secure deployment of Wireless networks in enterprises while protecting customers' investments in existing LAN and Token Ring. Madge's principal business centres are located in Maidenhead, United Kingdom; Munich, Germany; and New York, USA. Information about Madge's complete range of products and services can be accessed at [www.madge.com](http://www.madge.com).

Madge reserves the right to change specifications without notice.

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