

## Adding or Editing a Port

User-defined ports can be added or edited. System defined ports can only have the use port field changed.

To add a user-defined port, click on the Add button. To edit a port, user-defined or system, move the highlight bar to the port to edit and click on the Edit button.

When adding a user-defined port, the Add Port window will appear with default values. When editing a port, the Configure Port window will appear with the current values for the port. If a system port is being edited, all fields except the usage field will be dimmed. Only the usage field may be modified for a system port.

The configuration parameters are described below.

The **Use this port?** field is a radio button selection. If Yes is selected, the Sentinel Driver will search this port for keys otherwise the port will not be searched for Rainbow keys. The value for this field does not effect any other operation on this port. For example, printing can always occur to the parallel port regardless of the **Use this port?** field value.

The **Bus Address** is computer dependent and for **Intel** machines is usually one of the hexadecimal values 3bc, 378 or 278.

The **Port Type** describes the parallel port as seen by the Sentinel Driver.

**Note! In most cases, you do not need to modify this setting.**

**Autodetect** - The Sentinel Driver automatically determines the port type.

**NEC (Japan)** - This type of port is found on NEC systems built for the Japanese market.

**FMR (Japan)** - This type of port is found on Fujitsu systems built for the Japanese market.

**IBM AT** - This type of port is the AT-compatible port found on most systems.

**PS2 w/ DMA** - This type of port supports DMA. Examples are Type 2 and Type 3 ports found on IBM PS/2 systems.

**ECP** - This port type is provided for compatibility with certain devices whose device drivers use ECP.

**IBM AT Low** - This port type is provided for compatibility with very low power parallel ports.

The **Autodetect Used?** Check Box indicates whether the Port Type setting shown is the result of autodetection or user configuration. A checked box means that the port type was determined by autodetection. No check means that the port type was specified by the user.

The **Port Ownership Method** specifies the method used to acquire ownership of the

port.

**Note! In most cases, you do not need to modify this setting.**

**Auto** - This method directs the Sentinel Driver to use the method(s) that it determines

to be best. Use this method unless you experience problems.

**System** - This method uses the Windows 95 port allocation feature

**Sys Interrupt** - This method uses system interrupts to prevent conflicts with other programs using the parallel port.

**Mask Ints** - This method disables selected hardware interrupts to prevent conflicts with other programs using the parallel port.

**Critical Section** - This method uses the Windows Critical Section to prevent conflicts with other programs using the parallel port.

**Collision Detect** - This method verifies port ownership by detecting access by other programs using the parallel port.

If the configuration is changed, it will be necessary to reboot for the new configuration to take effect.

If there is an error in the configuration, it will not be detected until the system is rebooted. If an error is detected, Rainbow keys will not be able to be accessed on the parallel port having the configuration error.

## Overview

The Sentinel Driver provides access to Rainbow keys for **Windows 95** applications.

The Sentinel Driver is self-configuring, and for most systems does not require configuration by the user. However, if your system should require configuration, the process is outlined below.

1. The Sentinel Driver locates all ports which are known to **Windows 95** and configures these ports automatically. These ports are shown as System ports.
2. If a port does not exist in the Parallel Ports list or a system port has incorrect information, then a user-defined port can be defined. Most systems will not require a user-defined port.
3. Each port, system or user-defined, has a usage field which can be set. The usage field is initialized to Yes. The usage field informs the Sentinel Driver whether or not to search the port for a Rainbow key.
4. After the configuration is completed, **Microsoft Windows 95** must be rebooted for any changes to take effect.

If the configuration requires further modification, enter the Control Panel and select Drivers to view the driver list. Select the Sentinel Driver from the driver list and then select the **Setup** button to display the Sentinel Driver Parallel Ports list window.

## **Removing a Port**

Only user-defined ports may be removed.

To remove a port, move the highlight bar to the port to be removed and click on the Remove button. Since only user-defined ports can be removed, the Remove button is only active when the highlight bar is on a user-defined port otherwise the Remove button is dimmed.

## Sentinel Driver

The Sentinel Driver allows 32 bit **Windows 95** applications to access Rainbow keys connected to system parallel ports.

### More Information

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