

# MultiMode USB Adaptor

*Intelligent PS/2 to USB Adaptor*

Building on our superior keyboard wedge interface foundation, ID Innovations introduces a technologically advanced PS/2 to USB adaptor. Just as the introduction of our magnetic stripe reader in 1994, our new MultiMode USB Adaptor will set the standard by which all others will be measured. Our MultiMode USB Adaptor is optimized for the point-of-sale environment. This USB Adaptor will work with any legacy PS/2 keyboard device, your data can be sent as USB-Keyboard, USB-Serial, USB-HID. No other USB Adaptor on the market gives you the speed and flexibility of the ID Innovations MultiMode USB Adaptor.

## Optimized for Point-of-Sale Input Devices

If you have ever used other USB keyboard input devices, you might have noticed how slow they output. The ID Innovations MultiMode USB Adaptor is designed to send the data nearly twice as fast as most others. In the point of sale environment where data comes in bursts from Point-of-Sale peripherals, fast data throughput is paramount.

## Connect Multiple keyboard devices

One MultiMode USB Adaptor can be used for both a bar code scanner and magnetic card reader that are daisy chained together.



## Multiple modes of operation

Unlike other USB Adaptors on the market the ID Innovations MultiMode USB Adaptor has the ability to output the data from the PS/2 device in a number of different formats, for more information on these modes see next page.

Keyboard Emulation  
Advanced Keyboard Emulation  
USB-Serial COM port

## Robust PS/2 keyboard Interface

ID Innovations is a technology leader in the implementation of the PS/2 keyboard interface. Our PS/2 to MultiMode USB adaptor implements the full PS/2 keyboard protocol. Any device that complies with the PS/2 keyboard interface will not overrun the adaptor with data. The input device does not have to change its transmission speed to work with the PS/2 to USB adaptor. Just plug it in and go.



## Full Programmability

All ID Innovations input devices (ie Magnetic Card Readers, Bar code Decoders, etc) , can be configured using Windows based software. Download a free copy of this programming software from our website.

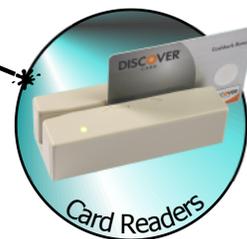
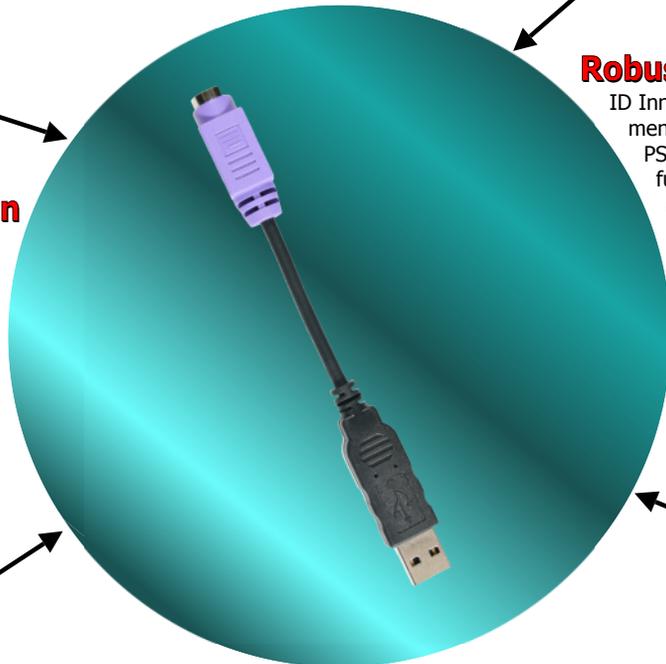
In conclusion:

Don't waste your money buying all new Point-Of-Sale keyboard peripherals because your current computer does not have a PS/2 port. Purchase an inexpensive, feature rich alternative, the ID Innovations MultiMode USB Adaptor. An adaptor unlike any other.

**[www.IDInnovations.com](http://www.IDInnovations.com)**

1244 Karla Drive, Suite 104 Hurst, TX 76053 Tel (817) 285-8772 Fax (817) 285-8839

Copyright © 2007 ID Innovations Incorporated 081007



## Auto Re-Connect Technology

Have you ever had a USB device that just seemed to stop working, but when disconnected and then reconnected it suddenly started to work again? ID Innovations has solved this problem by constantly monitoring the communication status with the host and then reestablishing connection if it is lost.

# MultiMode USB Adaptor

## Technical Specifications

### MultiMode USB Output modes explained

All other USB Adaptors on the market today output in only one fashion, Keyboard output. ID Innovations' MultiMode USB Adaptors also output in Keyboard mode. But what sets them apart from the rest is that they also have the ability to output in several **Enhanced** modes as well to meet even the most demanding of applications:

#### Keyboard Emulation

Transmit data just like a keyboard (default mode). In this mode, no additional drivers need to be downloaded. All drivers are provided by the operating system (Windows 98/Me/2000/XP/NT, Vista, Netware 4.11, 5.0, HP Unix, Linux, Apple computer MAC OS 8.6 or higher, Sun Microsystems)

#### Advanced Keyboard Emulation

Transmit data just like a keyboard but at a much higher speed. Additional drivers need to be installed on your computer in order to take advantage of this mode of operation. In addition, the driver will block any keyboard keystrokes from the user while the USB Adaptor is transmitting data, and will allow you to parse, retransmit and edit the data from the PS/2 device in any fashion that you may require. No other USB Adaptor can match the output of our USB MultiMode adaptor when used with this enhanced mode driver. Download the USB Keyboard Accelerator from our website at no additional charge.

#### USB-Serial COM port

Transmit data to a virtual COM port under Windows 98/Me/2000/XP/NT and Vista. If you have an application that requires data to be received via the COM port (i.e. COM1, COM2, COM3, etc) you can create a virtual COM port and have all USB data transmitted to the COM port for your application. You can even go one step farther and parse the data coming from your PS/2 device into multiple data fields that can be transmitted in any specified order. Download the USB Virtual COM Port Driver from our website at no additional charge.

#### HID Format

Our MultiMode USB Adaptor conforms to the USB Human Interface Device (HID) Class specification Version 1.1. Use of the HID driver allows for a direct communication path to be established between the Host application using standard Windows API calls that communicate to the device via Vendor defined

## Specifications

### Electrical

Power: 5 VDC  $\pm$  10%  
Operating Current: 13 mA  
Reliability: Brown Out, Low Voltage and Watch Dog Resets ensure continuous operation in less than ideal environments

### Mechanical

Dimensions: 5.75" (146.05 mm) L (Standard Adaptor), 73" (1,854.2mm) L (6' Adaptor Cable)  
Weight: 0.64 oz (Standard Adaptor)  
Connectors: PS/2 (Keyboard 6 pin mini-DIN Female) to USB Type-A Male  
Warranty: Two years parts and labor

### Environmental

Operating Temperature: 0° to 70° C (32° to 158° F)  
Storage Temperature: -30° to 80° C (-22° to 176° F)  
Relative Humidity: 10-90% Non Condensing  
ESD Immunity: Withstands 4KV contact & 8KV air discharge without damage or operational impact

### Regulatory

FCC: FCC Class B tested and verified  
CE: CE tested and verified  
Other: RoHS Compliant  
California Proposition 65 Compliant

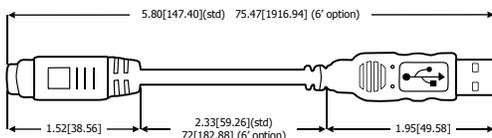


### Free Drivers & Software (downloadable, not required, Windows only)

**Accelerated Keyboard Driver:** Transmits data just like a keyboard but at a much higher speed. In addition, the driver will block any keyboard keystrokes from the user while the USB Adaptor is transmitting data and will allow you to parse, retransmit and edit the data from the PS/2 device in any fashion that you may require. No other USB Adaptor can match the output of our USB MultiMode Adaptor when used with this enhanced mode driver.

**Virtual COM Port Driver:** Transmit data to a virtual COM port under Windows 98/Me/2000/XP/NT and Vista. If you have an application that requires data to be received via the COM port (i.e. COM1, COM2, COM3, etc) you can create a virtual COM port and have all USB data transmitted to the COM port for your application. You can even go one step farther and parse the data coming from your PS/2 device into multiple data fields that can be transmitted in any specified order.

**Programming Software:** Programming software for ID Innovations Magnetic Card Readers. This software will allow you to program your PS/2 ID Innovations MSR's through the MultiMode USB Adaptor



Side Profile (Standard Connector Heights)

DIMENSIONS ARE IN INCHES[MM] (STANDARD ADAPTOR - 6' OPTION NOTED)

[www.IDInnovations.com](http://www.IDInnovations.com)

1244 Karla Drive, Suite 104 Hurst, TX 76053 Tel (817) 285-8772 Fax (817) 285-8839

Copyright © 2007 ID Innovations Incorporated 081007

# MultiMode USB Adaptor

*Accessories & Part Numbers*

## Universal Programmer [univpgm.exe/usbpgmw.exe] (Download free from [www.IDInnovations.com](http://www.IDInnovations.com))

This software is used to configure the MultiMode USB and PS/2 (Value Line Only) Magnetic Card Readers. Simply set the options in the software that you want to use and then Send the Configuration to the Magnetic Card Reader.

## USB Keyboard Accelerator [usbkbd.exe] (Download free from [www.IDInnovations.com](http://www.IDInnovations.com))

Unlock the full speed potential of your ID Innovations MultiMode USB Adaptor by using this driver. In addition to a speed increase of 300 to 500 % this driver will block all other incoming keyboard keystrokes thus ensuring your data is transmitted without interruption. The most exciting feature of the Keyboard Accelerator is the ability to format and validate the data in any order that your application requires.

## USB Virtual COM Driver [usbvcom.exe] (Download free from [www.IDInnovations.com](http://www.IDInnovations.com))

Do you have an application that will only accept data from a serial RS232 port? With this driver and any ID Innovations MultiMode USB Adaptor you can create a Virtual COM port that your application can use to receive the serial data. In addition, data throughput will increase 300% over standard keyboard output. No other hardware is required!

USB Cable Type	Color	Part Number
6" MultiMode Adaptor (Standard adaptor as pictured roughly 6 inches in total length)	Black	USB-UA-001
6' MultiMode Adaptor (6 foot long cable with USB Type-A male connector at one end and PS/2 female connector at the other)	Black	USB-UA-0B6
6' MultiMode Adaptor (6 foot long cable with USB Type-A male connector at one end and PS/2 female connector at the other)	White	USB-UA-0W6
Note: Custom Cable options available upon request		

**ID Innovations**  
INCORPORATED

1244 Karla Drive, Suite 104  
Hurst, TX 76053  
Tel (817) 285-8772  
Fax (817) 285-8839  
[www.IDInnovations.com](http://www.IDInnovations.com)

**[www.IDInnovations.com](http://www.IDInnovations.com)**

1244 Karla Drive, Suite 104 Hurst, TX 76053 Tel (817) 285-8772 Fax (817) 285-8839

Copyright © 2007 ID Innovations Incorporated 081007