

# Multiple Mode USB Adaptor

## *Intelligent PS/2 to USB Adaptor*

Building on our superior keyboard wedge interface foundation, Scan Technology introduces a technologically advanced PS/2 to USB adapter. Just as the introduction of our first magnetic stripe reader in 1982, our new Multiple Mode USB Adaptor will set the standard by which all others will be measured. Our Multiple Mode 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, and USB-HID. No other USB Adaptor on the market gives you the speed and flexibility of the Scan Technology Multiple Mode 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 Scan Technology Multiple Mode 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 Multiple Mode USB Adaptor can be used for both a bar code scanner and magnetic card reader that are daisy chained together.

### **Robust PS/2 keyboard Interface**

Scan Technology is a technology leader in the implementation of the PS/2 keyboard interface. Our PS/2 to Multiple Mode USB adapter 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.

### **Multiple modes of operation**

Unlike other USB Adaptors on the market the Scan Technology Multiple Mode 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.

### **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? Scan Technology has solved this problem by constantly monitoring the communication status with the host and then Reestablishing connection if it is lost.

### **Full Programmability**

All Scan Technology input devices (i.e. Magnetic Card Readers, Bar code Decoders, etc), can be configured using Windows based software. We can email you a Free copy of this programming software.

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 Scan Technology Multiple Mode USB Adaptor. "An adaptor like no other"

# Multiple Mode USB Adaptor

## Technical Specifications

### Multiple Mode USB Output modes explained

All other USB Adaptors on the market today output in only one fashion, Keyboard output. Scan Technology' Multiple Mode 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 Multiple Mode 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 Multiple Mode 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 Multiple Mode 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 Scan Technology Magnetic Card Readers. This software will allow you to program your PS/2 Scan Technology MSR's through the Multiple Mode USB Adaptor.

Dimensions: *Overall Length:* 5.80 [147.40] (STD) 75.47 [1916.94] (6' option), *PS2 Connector:* 1.52 [38.56], *USB Connector:* 1.95 [49.58]

*Length between PS2 & USB Connectors:* 2.33 [59.26] (STD) 72 [182.88] (6' option)

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

# Multiple Mode USB Adaptor

## *Accessories & Part Numbers*

### **Universal Programmer [univpgmr.exe] (Provided with Magstripe Reader on CD-R, or we can email to you.)**

This software is used to configure the Multiple Mode USB and PS/2 4000M & 2000M USB 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] (Provided with Magstripe Reader on CD-R, or we can email to you.)**

Unlock the full speed potential of your Scan Technology Multiple Mode 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] (Provided with Magstripe Reader on CD-R, or we can email to you.)**

Do you have an application that will only accept data from a serial RS232 port? With this driver and any Scan Technology Multiple Mode 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!

\*Note: USB Programmer, Keyboard Accelerator & Virtual COM Driver will be available for download soon, at [www.scantec.com](http://www.scantec.com).

<b>USB Cable Type</b>	<b>Color</b>	<b>Part Number</b>
6" Multiple Mode Adaptor (Standard adaptor as pictured roughly 6 inches in total length)	Black	STI-PS2-USB
6' Multiple Mode Adaptor (6 foot long cable with USB Type-A male connector at one end and PS/2 female connector at the other)	Black	STI-PS2-USB-B6FT
6' Multiple Mode Adaptor (6 foot long cable with USB Type-A male connector at one end and PS/2 female connector at the other)	White	STI-PS2-USB-W6FT

Note: Custom Cable options available upon request.



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