

# How to use the Reliance Virtual Serial Port

The Reliance Thermal Printer supports both traditional TTL serial connection and USB virtual serial ports. The latter is a feature that must be enabled before use. In this guide we will explain how to enable this feature and how to connect to the USB serial port.

## Enabling the Virtual Serial Port

Enabling the Virtual Serial Port can be done with Reliance Tools for Windows. This only needs to be done one time as this setting is saved internal to the printer.

1. Launch Reliance Tools
2. Ensure you are connected to a Reliance Thermal printer over USB
3. Navigate to the Print Config Tab
4. Scroll to the Virtual Comm Port option
5. Toggle the switch to the on position
6. Click the blue Apply button to save your settings.
7. Turn off Reliance and then back on again

## USB Enumeration

Now that the USB virtual serial port is enabled, you will be able to discover it as a USB device. Here is the USB enumeration table for Reliance VID: 0x0425, PID: 0x8147

Interface	Name	Endpoint In	Endpoint Out
0	Printer	0x87	0x08
1	HID	0x89	0x0A
2	CDC Control (Don't use)	--	--
3	CDC (Serial Port)	0x83	0x04

On most Linux operating systems, the serial port will automatically be added to your /dev block. Check your dmesg logs for details.

On Windows OS before Win 10 1809, the serial port will require the serial port driver which is available for download [from our website](#). Modern version of Windows will not require the serial port driver.