

JSB280 Class Library API Overview

The JSB280CL.DLL provides a managed API for the JSB280 Relay modules. It can be used by any programming languages or any applications that supports standard windows Class Libraries. On the driver CD, included is sample source code for various programming languages. They demonstrated the use of each of the functions in a simple straight-forward manner and can be used as a starting point for user applications. The following is just a quick overview for each of the functions. The class library has an .xml file that is used by Visual Studio to support IntelliSense help to make using the functions quick and easy.

1.0 Get Number of Modules

This function returns the number of JSB280 Modules attached to the computers USB port.

```
public static System::Int16 NumberOfModules()
```

2.0 Get the serial number of attached JSB280 Module

This function returns a string that is a unique serial number so when multiple JSB280 modules can be accessed.

```
public static System::String SerialNumber(System::Int32 nModuleNumber)
```

3.0 Get the version of the class library

This function returns a string that is the version of the class library being used.

```
public static System::String ClassLibraryVersion(void)
```

4.0 Get version of driver

This function returns a string that is the version of JSB280 USB driver being used.

```
public static System::String DriverVersion(System::String SerialNumberOfModule)
```

5.0 Get version of firmware

This function returns a string that is the version of the firmware on the JSB280 module.

```
public static System::String FirmwareVersion(System::String SerialNumberOfModule)
```

6.0 Get Number of relays

This function returns the number of relays on module.

```
public static System::Int16 NumberOfRelays()
```

7.0 Flash the module LED

This function flashes the LED on the module.

```
public System.Void FlashLed(System.String SerialNumberOfModule)
```

8.0 Check if the relay is closed

This function returns a value of true if the relay on the module is closed, if open returns false.

```
public System::Boolean IsRelayClosed(System::String SerialNumberOfModule)
```

9.0 Close all relays

This function closes all the relays on the module.

```
public System::Boolean CloseAllRelays(System::String SerialNumberOfModule)
```

10.0 Open all relays

This function opens all the relays on the module.

```
public System::Boolean OpenAllRelays(System::String SerialNumberOfModule)
```

11.0 Close the relay

This function closes the relay on the module with the passed serial number and relay number.

```
public System::Void CloseRelay(System::String SerialNumberOfModule, sbyte RelayNumber)
```

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12.0 Open the relay

This function opens the relay on the module with the passed serial number and relay number.

```
public System::Void OpenRelay(System::String SerialNumberOfModule, sbyte RelayNumber)
```

13.0 Set the relay state

This function sets the state of the relay on the module with passed serial number. true closed, false open.

```
public System::Void SetRelay(System::String SerialNumberOfModule, sbyte relay num, System::Boolean)
```