

# JSB63x Class Library API Overview

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The JSB63xCL.DLL provides a managed API for the JSB63x Temperature 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 JSB63x Modules attached to the computers USB port.

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

## 2.0 Get the serial number of attached JSB63x Module

This function returns a string that is a unique serial number so when multiple JSB63x modules can be accessed.

```
public static System::String GetSerialNumber(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 GetClassLibraryVersion(void)
```

## 4.0 Get version of driver

This function returns a string that is the version of JSB63x USB driver being used.

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

## 5.0 Get version of firmware

This function returns a string that is the version of the firmware on the JSB63x module.

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

## 6.0 Flash the module LED

This function flashes the LED on the module.

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

## 7.0 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)
```

## 8.0 Check if the relay is open

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

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

## 9.0 Close the relay

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

```
public System::Void CloseRelay(System::String SerialNumberOfModule)
```

## 10.0 Open the relay

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

```
public System::Void OpenRelay(System::String SerialNumberOfModule)
```

## 11.0 Set the relay state

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

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

## 12.0 Read the temperature value

This function returns the temperature value.

```
public System::Float TemperatureValue(System::String SerialNumberOfModule)
```