

JSB31x DLL Library API Overview

The JSB31x.DLL provides an API for the JSB31x Relay modules and watch dog timer module (WDT). It can be used by any programming languages or any applications that supports standard windows DLL 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. Items 11-14 only function on the JSB310-WDT module.

1.0 Get Number of Modules

This function returns the number of JSB31x Modules attached to the computers USB port.

`short _stdcall Jsb31xGetNumberOfModules()`

2.0 Get the serial number of attached JSB31x Module

This function returns a string that is a unique serial number so when multiple JSB31x modules can be accessed.

`_stdcall Jsb31xGetSerialNumber(int nModuleNumber, LPCTSTR StringReturn, int Size)`

3.0 Get the version of the DLL library

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

`_stdcall Jsb31xGetClassLibraryVersion(LPCTSTR ptrToReturnString, int Size)`

4.0 Get version of driver

This function returns a string that is the version of JSB31x USB driver being used.

`_stdcall Jsb31xGetDriverVersion(LPCTSTR SerialNumber, LPCTSTR ptrReturnString int Size)`

5.0 Get version of firmware

This function returns a string that is the version of the firmware on the JSB31x module.

`_stdcall Jsb31xGetFirmwareVersion(LPCTSTR SerialNumberOfModule)`

6.0 Flash the module LED

This function flashes the LED on the module.

`_stdcall JSb31xFlashLed(LPCTSTR 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.

`Bool _stdcall Jsb31xIsRelayClosed(LPCTSTR SerialNumberOfModule)`

8.0 Close the relay

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

`_stdcall Jsb31xCloseRelay(LPCTSTR SerialNumberOfModule)`

9.0 Open the relay

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

`_stdcall Jsb31xOpenRelay(LPCTSTR SerialNumberOfModule)`

10.0 Read Input value

This function returns the input value on the module with the passed serial number.

`_stdcall Jsb31xGetInput(LPCTSTR SerialNumberOfModule)`

11.0 Set WDT time out value

This function sets the time out value in milliseconds module with the passed serial number. Once the WDT is enable, if after this time the module has not seen a input pulse, or software reset, the relay will open.

`_stdcall Jsb31xSetWdt(LPCTSTR SerialNumberOfModule, int32 iTime)`

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12.0 Software Reset of WDT

This function resets the time out value to indicate that system is alive.

```
_stdcall Jsb31xSetWdt(LPCTSTR SerialNumberOfModule,int32 iTime)
```

13.0 Set WDT reset value

This function sets the time that will reset the WDT after a time-out has occurred. The relay will close again, and resets will be expected. If set to 0, reset function not used. This is for users who want to trigger some type of reset operation if a time-out occurs, and auto restart the WDT.

```
_stdcall Jsb31xSetWdt(LPCTSTR SerialNumberOfModule,int32 iTime)
```

14.0 Enable WDT

This function enables the WDT, the relay is closed if opened. Relay will open if no input or software reset as occurred within the time set in 11.

```
_stdcall Jsb31xEnableWdt(LPCTSTR SerialNumberOfModule)
```