

JSB283 DLL Library API Overview

The JSB283.DLL provides a API for the JSB283 Relay modules. 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.

Int16

Function prototypes for C/C++ are in the file “ ”

C/C++ Information

[libcall](#)

Must include “ .lib” as library

StdCall

1.0 Get Number of Modules

This function returns the number of JSB283 Modules attached to the computers USB port.

Jsb283GetNumberOfModules()

parameters:

none

returns:

Number of modules attached to USB port as Int16

Examples

C/C++

function prototype:

```
// calling interface type must be stdcall, either declare in prototype or build settings for code generation
#define LIBCALL __stdcall
```

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2.0 Get the serial number of attached JSB283 Module

This function returns a string that is a unique serial number so when multiple JSB283 modules can be accessed.
_stdcall Jsb283GetSerialNumber(int nModuleNumber, LPSTR 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 Jsb283GetClassLibraryVersion(LPSTR ptrToReturnString, int Size)

4.0 Get version of driver

This function returns a string that is the version of JSB283 USB driver being used.
_stdcall Jsb283GetDriverVersion(LPCTSTR SerialNumber, LPSTR ptrReturnString int Size)

5.0 Get version of firmware

This function returns a string that is the version of the firmware on the JSB283 module.
_stdcall Jsb283GetFirmwareVersion(LPCTSTR SerialNumberOfModule)

6.0 Flash the module LED

This function flashes the LED on the module.
_stdcall JSb283FlashLed(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 Jsb283IsRelayClosed(LPCTSTR SerialNumberOfModule)

8.0 Close the relay

This function closes the relay on the module with the passed serial number.
_stdcall Jsb283CloseRelay(LPCTSTR SerialNumberOfModule)

9.0 Open the relay

This function opens the relay on the module with the passed serial number.
_stdcall Jsb283OpenRelay(LPCTSTR SerialNumberOfModule)

```
/**
*****
/**
*****
/**
*****
// file Jsb283Dll.h

//          This file provides the prototypes for the DLL functions with Jsb283.dll. They
are used
//          to control the module

//          The file Jsb283.lib must be linked with your application code. This is under
//          Projects/settings/link/object/library module
//
//

// calling inteface to dll must be here or application build
// must be as stdcall under code generation
#define LIBCALL __stdcall
```

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```
//*****
//*****
//  DLL Functions
//
//
//      If only one module is attached, an empty string "" can be used in
//      place of the actual full serial number string.
//
//*****
//      this method returns the number of JSB283 modules currently connected to
//      the usb port
__declspec(dllexport) short LIBCALL Jsb283GetNumberOfModules(void);

//*****
//      this method returns the DLL version number of JSB283 modules for the
given
//      serial number. Function return TRUE if ok
__declspec(dllexport) BOOL LIBCALL Jsb283GetDllVersion(LPSTR strReturn,int nSize);

//*****
//      this method returns the Driver version number of JSB283 modules for the
given
//      serial number. Function return TRUE if ok
__declspec(dllexport) BOOL LIBCALL Jsb283GetDriverVersion(LPCTSTR strSerialNum,LPSTR
strReturn,int nSize);

//*****
//      this method returns the firmware version number of JSB283 modules for
the given
//      serial number. Function return TRUE if ok
__declspec(dllexport) BOOL LIBCALL Jsb283GetFirmwareVersion(LPCTSTR strSerialNum,LPSTR
strReturn,int nSize);

//*****
//      this method returns the serial number for JSB283 modules. On system
power
//      up this is no way to know which order attached modules will come up, so
//      the serial should be used to communicate with modules. nModulesNumber
starts at 1
//
__declspec(dllexport) BOOL LIBCALL Jsb283GetSerialNumber(int nModuleNumber,LPSTR
strReturn,int nSize);
```

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