POWER USB

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Computer Controlled Power Strip

Software API

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1. Introduction

The PowerUSB can be controlled from third party applications through functions calls provided in the DLL. The DLL provides functions to initialize the PowerUSB and set the outlet power states. The DLL can be loaded statically or dynamically from the calling application. The DLLs have been tested under Visual Studio .Net and VC++ 6.0 in Windows XP and Windows 7 environments.

2. Function Calls

2.1 Initialization

Initializes the Power USB API. No other functions can be called till the API is initialized.

Name: InitPowerUSB
Parameters: None
Return: >=0 if successful. < 0 on failure
C++ Example:

```
if (!m_pwrUSBInit)
{
    if (InitPowerUSB() >= 0)
    {
        m_pwrUSBInit = 1;
        m_pwrUsbConnected = CheckStatusPowereUSB();
     }
}
```

2.2 Check PowerUSB connectivity

Checks to see if the power USB is connected to the computer. Returns the number of Power USBs connected. Windows function OnDeviceChange can be used to monitor the connection/disconnection of the powerUSB dynamically.

Name: CheckStatusPowereUSB
Parameters: None
Returns: Number of PowerUSB devices connected
C++ Example:

```
BOOL CPowerUSBDlg::OnDeviceChange(UINT nEventType, DWORD_PTR dwData)
{
        m_pwrUsbConnected = CheckStatusPowereUSB();
        UpdateData(TRUE);
        if (m_pwrUsbConnected)
```

```
            m_connectionStr = "PwrUSB Connected";
        else
            m_connectionStr = "PwrUSB Not Connected";
        UpdateData(FALSE);
        return TRUE;
}
```

2.3 Close the Device

Closes the PowerUSB API. Should be called in application exit function such as OnDestroy.

Name: ClosePowerUSB
Parameters: None
Returns: >=0 if successful. < 0 on failure
C++ Example:

```
if (m_pwrUSBInit)
{
        ClosePowerUSB();
        m_pwrUSBInit = 0;
}
```

2.4 Set the Outlet State

Sets the power on/off state of the two outlets.

Name: SetPortPowerUSB
Parameters: int port1, int port2. (0=switch off the power, 1=switch on the power)
Returns: >=0 if successful. < 0 on failure
C++ Example:

```
m_port1 = 0;
m_port2 = 1;
SetPortPowerUSB(m_port1, m_port2);
```

2.5 Set the Default power up state

Sets the default power up state of the Power USB (when connected to Computer). If set to 1, the outlet will come on when the attached computer is booted up.

Name: SetDefaultStatePowerUSB
Parameters: int port1, int port2. (0=default off state, 1=default on state)
Returns: >=0 if successful. < 0 on failure
C++ Example:

```
SetDefaultStatePowerUSB(m_defaultState1,.m_defaultState2);
```