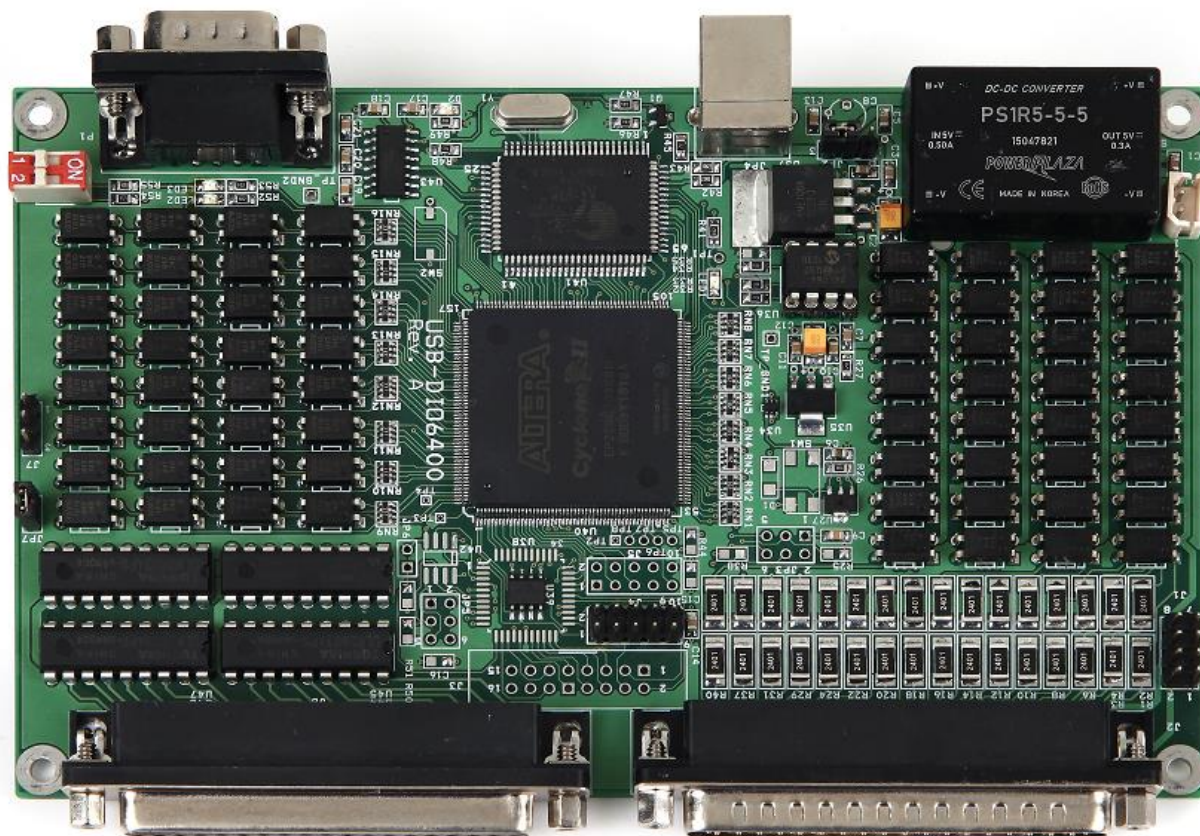


# USB-DIO6400

## API Manual

Version 1.0



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## Board Level API Functions

### Overview

**BOOL**            **OpenDAQDevice (int nModel, int nBoard)**

**BOOL**            **ResetBoard (int nModel, int nBoard)**

**BOOL**            **CloseDAQDevice (int nModel, int nBoard)**

### OpenDAQDevice

This function opens the device. In the program using the USB-DIO6400 series board, the device must be opened by calling the function once at the beginning.

**BOOL**            **OpenDAQDevice (int nModel, int nBoard)**

#### Parameters:

nModel : Write the model number . USB-DIO6400 model is set to "0".

nBoard : Shows the board number currently installed in the system.

The board number is set using the DIP switch of the board.

#### Return Value:

If device open is successful, the number of devices currently installed in the system (PC) is returned. In case of failure, "-1" is returned.

### ResetBoard

This function initializes the device currently installed in the system (PC).

**BOOL**            **ResetBoard (int nModel, int nBoard)**

#### Parameters:

nModel : Write the model number . USB-DIO6400 model is set to "0".

nBoard : Shows the board number currently installed in the system.

The board number is set using the DIP switch of the board.

#### Return Value:

If the function call fails, "FALSE" is returned.

If the function call succeeds, "TRUE" is returned.

## CloseDAQDevice

This function closes all open USB-DIO6400 series devices. When the use of the device is finished, be sure to close the device so that other programs can use it.

**BOOL           CloseDAQDevice (int nModel, int nBoard)**

**Parameters:**

nModel : Write the model number . USB-DIO6400 model is set to "0".

nBoard : Shows the board number currently installed in the system.

The board number is set using the DIP switch of the board.

**Return Value:**

If the function call fails, "FALSE" is returned.

If the function call succeeds, "TRUE" is returned.

## **DIO(Digital Input Output) API Functions**

### ***Overview***

**BOOL**      **DIN\_Read (int nModel, int nBoard, int nReg, DWORD \*dwVal)**  
**BOOL**      **DOUT\_Write (int nModel, int nBoard, int nReg, DWORD dwVal)**  
**BOOL**      **DOUT\_Read (int nModel, int nBoard, int nReg, DWORD \*dwVal)**

### **DIN\_Read**

This function reads 32bit digital input value.

**BOOL**      **DIN\_Read (int nModel, int nBoard, int nReg, DWORD \*dwVal)**

#### **Parameters:**

nModel : Write the model number . USB-DIO6400 model is set to "0".

nBoard : Shows the board number currently installed in the system.

The board number is set using the DIP switch of the board.

nReg : Register Number. USB-DIO6400 model is set to "0".

\*dwVal : Buffer pointer of data to read.

#### **Return Value:**

If the function call fails, "FALSE" is returned.

If the function call succeeds, "TRUE" is returned.

### **DOUT\_Write**

This function outputs a 32-bit digital value to the output port.

**BOOL**      **DOUT\_Write (int nModel, int nBoard, int nReg, DWORD dwVal)**

#### **Parameters:**

nModel : Write the model number . USB-DIO6400 model is set to "0".

nBoard : Shows the board number currently installed in the system.

The board number is set using the DIP switch of the board.

nReg : Register Number. USB-DIO6400 model is set to "0".

dwVal : Data to output.

The output port corresponding to the bit set to "1" is On.

#### **Return Value:**

If the function call fails, "FALSE" is returned.

If the function call succeeds, "TRUE" is returned.

## DOUT\_Read

This function reads the current value of the output port as 32bit.

**BOOL            DOUT\_Read (int nModel, int nBoard, int nReg, DWORD \*dwVal)**

**Parameters:**

nModel : Write the model number . USB-DIO6400 model is set to "0".

nBoard : Shows the board number currently installed in the system.

          The board number is set using the DIP switch of the board.

nReg : Register Number. USB-DIO6400 model is set to "0".

\*dwVal : Buffer pointer of output data.

**Return Value:**

If the function call fails, "FALSE" is returned.

If the function call succeeds, "TRUE" is returned.

# Memo

## Contact Point

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