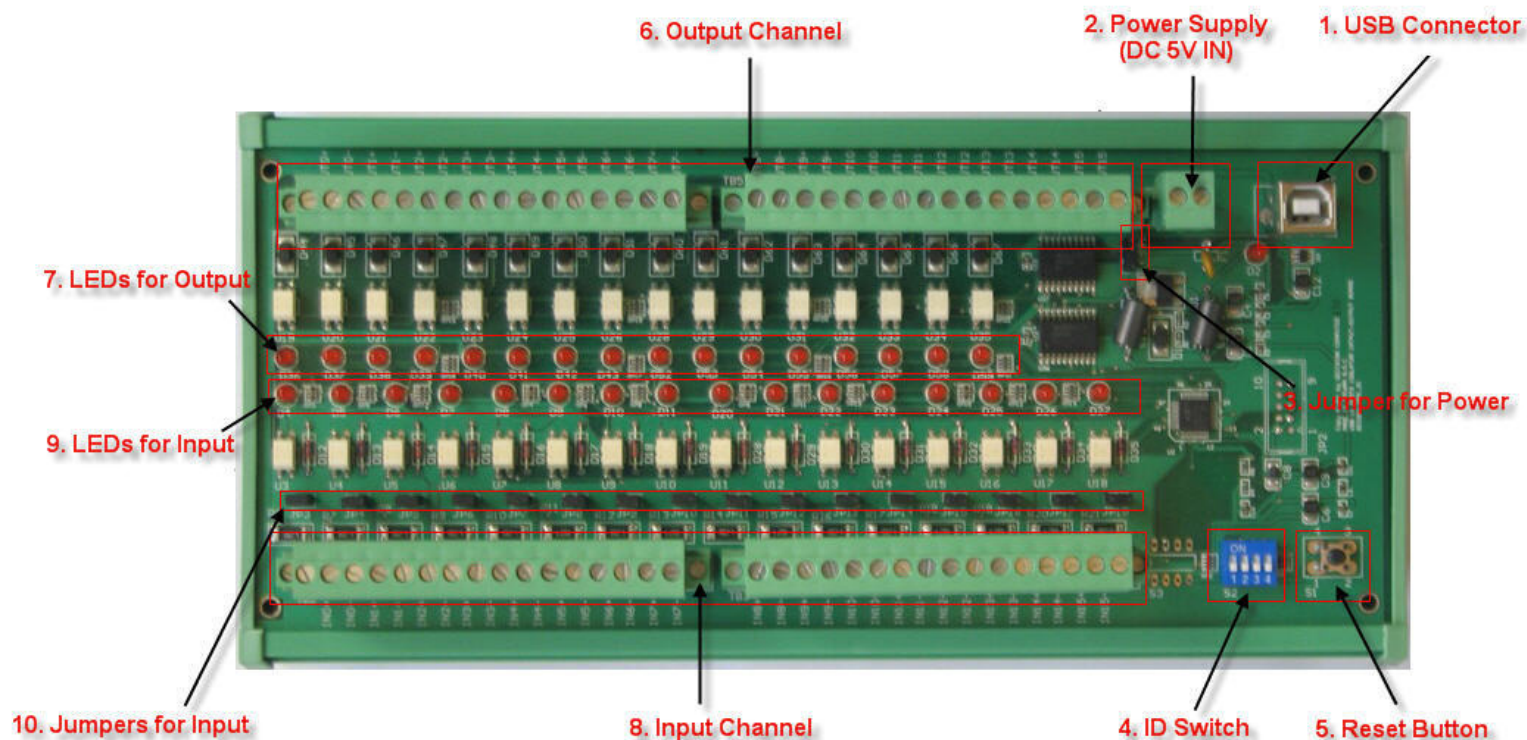




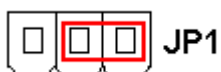
1. USB Connector

Use USB cable to connect to PC.

2. Power Supply (DC 5V IN)

External Power Supply DC 5V IN. Please be careful about the voltage direction.

3. Jumper for Power



Power by USB bus



Power by external power supply (NO.2 DC 5V IN)

4. ID Switch

When connecting over two same devices in one host PC, set different ID to distinguish one product from the other. ID can set from 0 to 14, which means one host PC can connect at most 15 same devices to control. And 15 is hold for firmware updating.

5. Reset Button

Press the reset button to let device return its initializing states.

6. Output Channel

USB 16 channels photo isolator input/output board provides 16 output channels.

7. LEDs for Output

When the output channel is close (connecting), the corresponding LED will be turned on.

When the output channel is open (disconnecting), the corresponding LED will be turn off.

8. Input Channel

USB 16 channels photo isolator input/output board provides 16 input channels.

Input voltage range from 0V to 30V.

9. LEDs for Input

When the input channel detects high (input high), the corresponding LED will be turned on.

When the output channel detects low (input low), the corresponding LED will be turn off.

10. Jumpers for Input

Jumpers may need to set for different input voltage range.

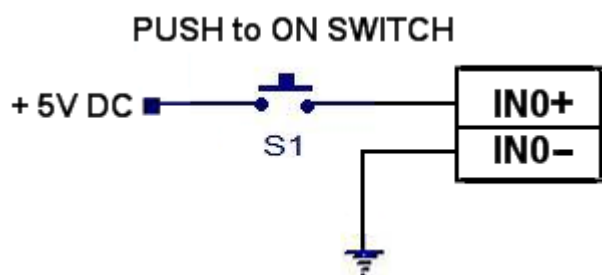
When range is from 0 to 20V DC, short jumpers. (0 to 3.3V as inactive / 4.5 to 20V as active)

When range is from 0 to 30V DC, open jumpers. (0 to 17.6V as inactive / 18 to 30V as active)

Simple draft for Input and Output circuit example

Input Example

We can simply add a push button to control high/low voltage into an input channel.
By a simple application program, we can detect if the push button is pressed or not.



Output Example

We can simply add a lamp to demonstrate on/off for an output channel.
By a simple application program, we can control if the lamp is be turned on or off.

