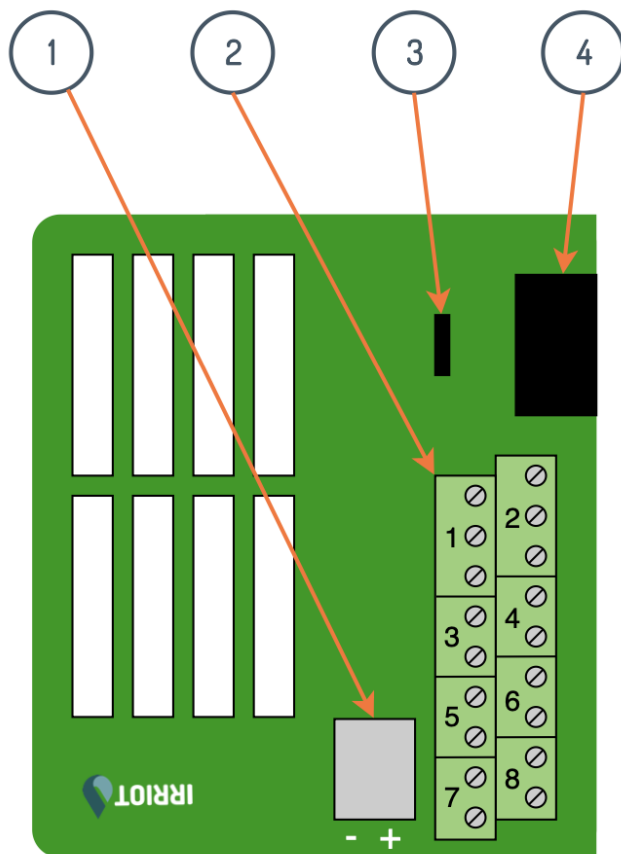


Extension boards



1. **12 VDC** Backup Battery port
2. **Output** ports
3. **Slot** selection Jumper
4. **Bus** Connector port

Technical Specifications:

Switching Voltage: *0 - 24VAC*
 Switching Current: *0 - 6A*
 Operating temperature range: *-20 to +60°C (-4 to 140°F)*

IRRIOT BSP-8OEB - 8 Output Ports Extension Board

IRRIOT BSP-8OEB - **optional* **8 Output** Ports Extension Board can be installed and connected directly to the **Controller (Base Unit)**. **Maximum up to 2 Boards per controller**. The board can be used to control various devices, which comply with Technical Specifications above, e.g. pumps, filters, fertilizer mixers, 24VAC valves with an *optional 24VAC transformer*, etc. *Please consult with an electrician on how to connect 24VAC valves with a transformer.*

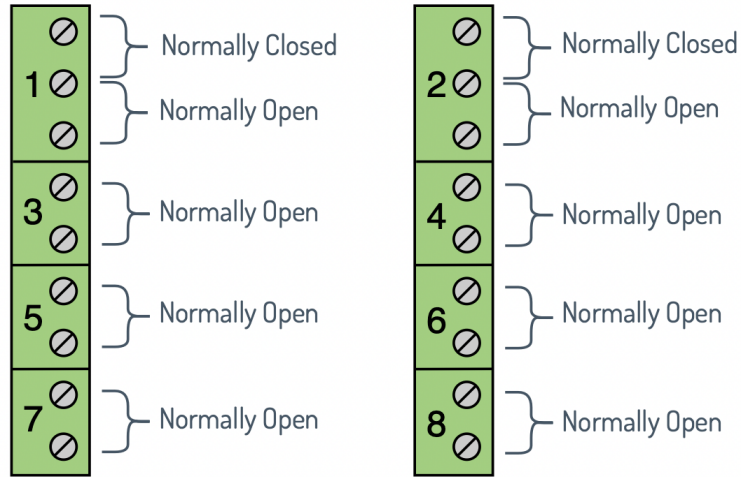
12VDC Battery port

The same board is used to provide a **12VDC** Car/Boat Battery or Solar Panel kit with Battery to power the Controller where AC grid power is not available. **Pay attention to the polarity, when connecting DC power.**

Bus connector

Bus connector port is used to connect the extension board to the controller with a ribbon cable provided with the extension board.

Output Ports



Note: Ports 1 and 2 have both default modes available - Normally Open and Normally Closed. Ports 3 - 8 Normally Open. Please see the picture above.

A **Normally Open** switch is a type of electrical switch. When a normally open switch is not compressed it remains **"off"**.

In a **Normally Open** switch, when the switch is off the contacts are open. This means the electrical connection is broken so the switch is **"off"**. In **Normally Closed** switches, the contacts are closed which connects the switch meaning that when they are not compressed they are switched **"on"**.

Slot selection Jumper

The Jumper switch is used to distinguish **Slot 1** and **Slot 2** used in the Controller, it's important when using 2 boards in one controller.

Jumper **Open** - **Slot 1**
 Jumper **Closed** - **Slot 2**

Attention!!! There should be **no high-voltage power** (above 24VAC) connected directly to the board as it may destroy the Extension Board and the Controller, thus void the warranty. If there's a need to use high-voltage, like 110-250VAC, then the extension board can be used as a "dry contacts" switch (also known as a **volt free** contact or **potential-free** contact). All high-voltage or high-current jobs must be conducted only by a certified electrician.