

## PowerNext-P

Sometimes you need more power than can be delivered by an Arduino or DCCNext. In that case a **PowerNext-P** or PowerNext-Z from Arcomora can help you.

The **PowerNext-P** is a board that can be used for controlling devices that require more current and a higher voltage.

It can switch a maximum load of 2 Amp.

The main characteristic of the **PowerNext-P** is that all loads must use a common plus. It is designed for tracks where other electrical devices already use a common plus.

The **PowerNext-P** can control 16 devices that all require the same voltage. Therefore a power unit can be connected.

You can connect the output from a DCCNext/DCC-shield to an input of the **PowerNext-P**. A coupling print with the DCCNext is also available (requires Dupont pins on all ports of the DCCNext). The input is fully separated from the output of the **PowerNext-P** by an optocoupler; even the ground is not connected.

This galvanic isolation between input and output (blue terminals) prevents unwanted disruptions.

You can also connect outputs from multiple DCCNext/DCC shield to this board. Be sure to connect the GND from the DCCNext/DCC-shield to the GND input.

The **PowerNext-P** also supports multicolor LED strips as load.

All outputs contain a suppressor diode. That makes it very suitable for turnout coils.

Typical application for the **PowerNext-P** with Mardec accessories:

- Turnout coils; require two outputs and a "Double one shot"
- On/off control for DC motor, lights or (multi color) LED strips and a "Single steady".
- PWM control (slowly on-off-on) of DC motor, lights or (multicolor) LED strips and a "Analog PWM".

