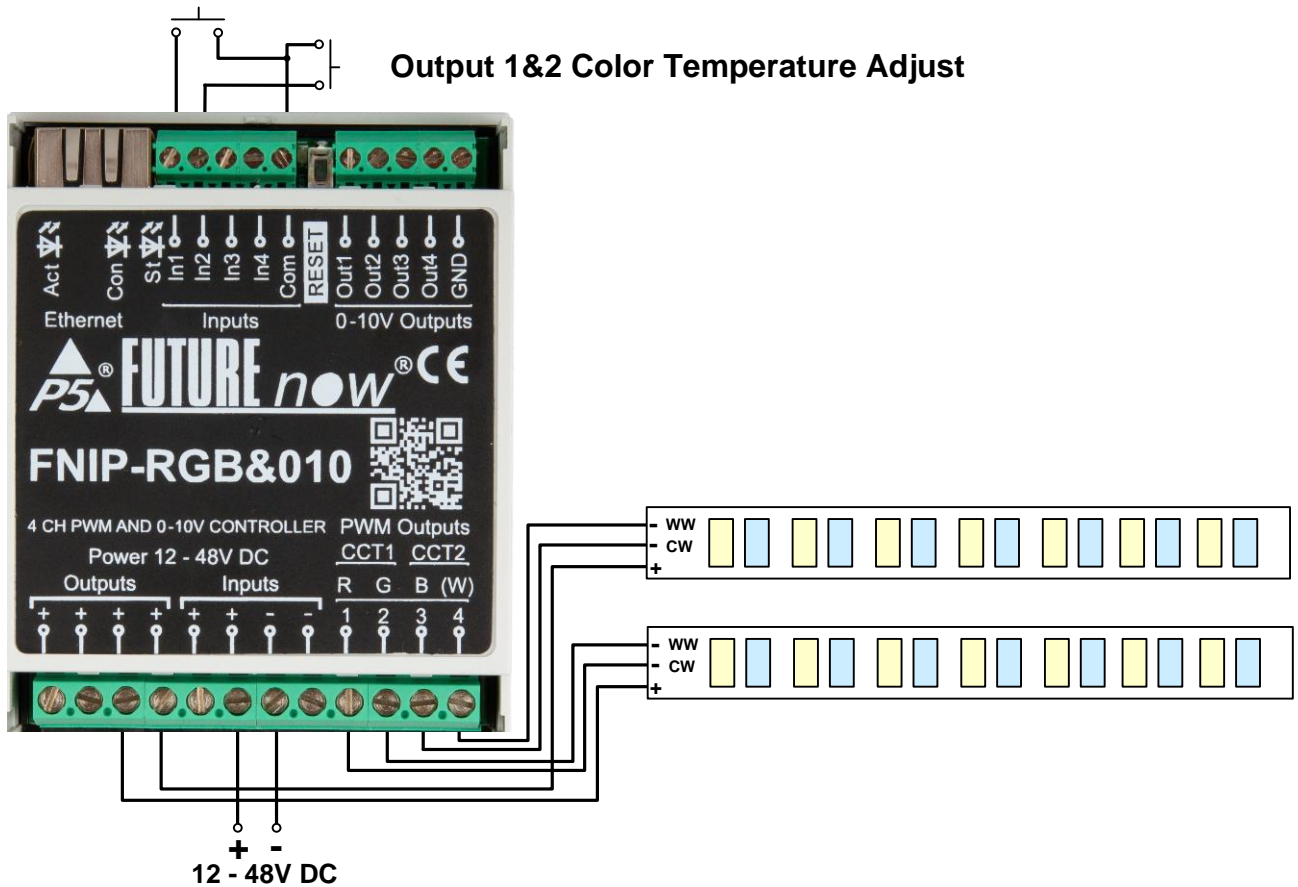


# FutureNow FNIP-RGB&010

4 Channel Tunable White (or CCT)\* and RGB(W) LED Dimmer

Output 1&2 Toggle / Dim



## CCT LED Strips connection example

- \* **Tunable White** or **CCT** LED tape are the same.
- \* **CCT** stands for Correlated Color Temperature

## • OVERVIEW

The FNIP-RGB&010 is ideal for switching and dimming low voltage LED strips using the Constant Voltage PWM method. There is also a 0-10V analogue output for each channel that works alongside the PWM output.

The outputs can be controlled via the local inputs and through the network using TCP/IP commands or the built-in web interface.

The local inputs give the customer the ability of using the system even before a central controller is installed or the network is built, offering stand-alone operation. The home-owner can decide later on what controller or system to use.

This also improves reliability since the operation of the outputs do not rely on any third-party device. If network or programming errors should occur, the lights still remain controllable.

The inputs can also be used as independent digital inputs for remote monitoring various sensors, such as water leakage sensors or door contacts, or even an output of a security system (armed/disarmed/in alarm).

The local inputs are usually connected to momentary wall switches and work similarly to traditional light switches.

The inputs can also be used to recall pre-defined scenes.

The FNIP-RGB&010 connects to the network via an RJ45 Ethernet connector.

The outputs can be used to drive the following LED light sources:

- Single channel LED strip by using one channel PWM output
- **Tunable White** (or **CCT**)\* LED strip by using two channels of PWM output  
1&2, or 3&4
- RGB LED strips by using three channels  
1: R, 2: G, 3: B
- RGBW LED strips using four channels  
1: R, 2: G, 3: B, 4: W



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\* **CCT** stands for Correlated Color Temperature



# Screenshots from the internal web gui


## CCT mode Control



Output 1   9

Output 1 - Color Temperature  127

Output 3   225

Output 3 - Color Temperature  62

Output 1 slider sets the brightness of the first two channels

Output 1 - Color Temperature slider controls the ratio between the cold, and warm lights connected to channel 1 & 2.

## Channel settings



Output labels	Input labels	CCT mode	Operation modes	Input modes	Scene no.	Monostable duration	Bind to
Output 1	Input 1	<input checked="" type="checkbox"/>	Single ▾	Toggle ▾	1	10	
Output 2	Input 2	<input checked="" type="checkbox"/>		Toggle ▾	1	10	2 ▾
Output 3	Input 3	<input checked="" type="checkbox"/>		Toggle ▾	1	10	3 ▾
Output 4	Input 4	<input checked="" type="checkbox"/>		Toggle ▾	2	10	4 ▾

### Other settings:

Resume light levels after power outage:

## Scene settings

Control	Input	Network	Channel	Dimming	Scenes	Users	Firmware	Logout
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	Output 1 Level	Output 1 Color temperature	Output 3 Level	Output 3 Color temperature
Scene 0	<input checked="" type="checkbox"/> Level 0 Rate 1	<input checked="" type="checkbox"/> Level 0 Rate 1	<input checked="" type="checkbox"/> Level 0 Rate 1	<input checked="" type="checkbox"/> Level 0 Rate 1
Scene 1	<input checked="" type="checkbox"/> Level 20 Rate 1	<input checked="" type="checkbox"/> Level 100 Rate 1	<input checked="" type="checkbox"/> Level 200 Rate 1	<input checked="" type="checkbox"/> Level 200 Rate 1
Scene 2	<input checked="" type="checkbox"/> Level 40 Rate 1	<input checked="" type="checkbox"/> Level 25 Rate 1	<input checked="" type="checkbox"/> Level 20 Rate 1	<input checked="" type="checkbox"/> Level 25 Rate 1

## Specifications

### Power Requirement

Main Power Input 12 – 48 VDC (10 - 60V DC), max 160 mA @ 12V, 97 mA @ 24V, 80 mA @48V

### 0-10V Outputs

Load Max. 20mA/Channel

### PWM Outputs

**Load Max. 8A/Channel, 12– 48V DC**

### Communication

Control TCP (simple ASCII TCP commands)  
Build-in web server (HTTP)  
Local inputs for momentary switches

### Connectors

Input terminals 1.5mm<sup>2</sup> screw terminals  
0-10V control outputs 1.5mm<sup>2</sup> screw terminals  
Power outputs 2.5mm<sup>2</sup> screw terminals  
RGB(W) control outputs 2.5mm<sup>2</sup> screw terminals  
Ethernet RJ45 Ethernet Connector

### Environmental

Operating Temperature 0 °C – 40 °C (32 °F – 04 °F)