GROUNDBREAKING INNOVATIONS FOR DYNAMIC LIGHTING

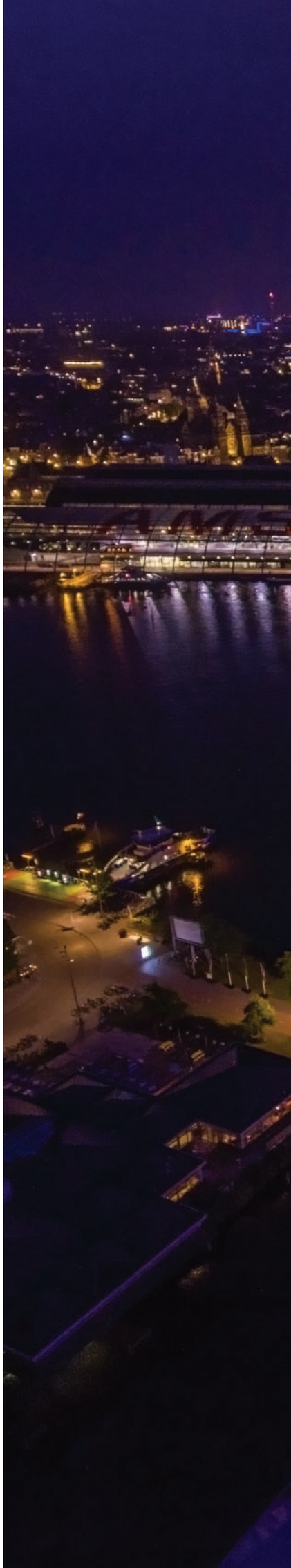
DiGidot

PIXEL • LIGHT • SHOW CONTROL

LIGHTING CONTROL SHOULD BE EASY IN ANY KIND OF WAY

The complexity of a lighting installation may never be a limitation for its feasibility. That is where the idea for DiGidot's products came from; everything should be possible with the smallest number of parts and the littlest effort.

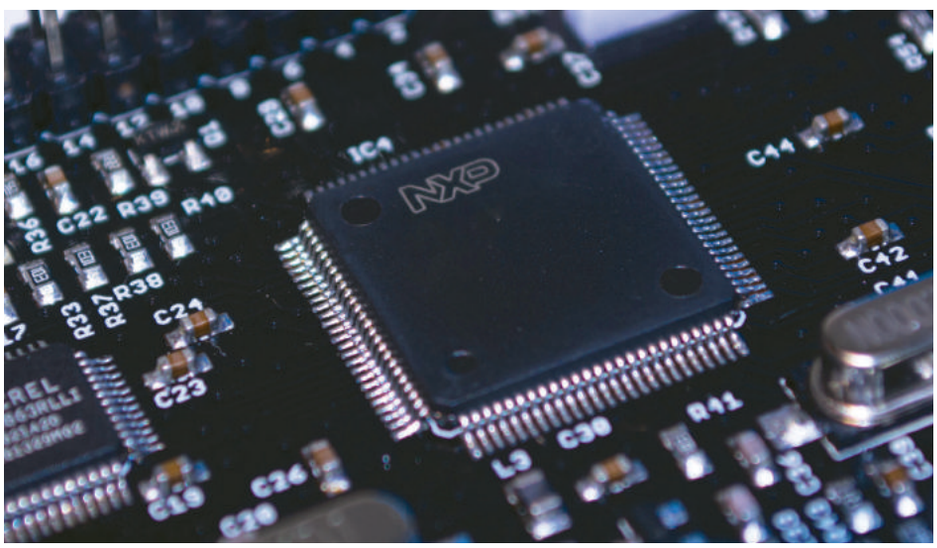
A burden of proof for that idea is an imposing project DiGidot took part in. Every large and noteworthy city in the world has one; a lookout on top of an impressive tower. In 2016, Amsterdam revealed its own; the A'DAM Tower. To control the almost countless number of LEDs in the different venues of this tower, a relatively small number of DiGidot C4 controllers was needed. Get to know DiGidot and you'll find out: You don't need much, to achieve a lot in digital lighting.



WHY NOT HAVE ONE DEVICE THAT CONTAINS ALL THE OPTIONS?

This is the question it all started with! DiGidot, a sister company of InventDesign, was founded in 2015. InventDesign, specialist in creative LED lighting, has a rich history when it comes to innovative solutions, especially in the control of LED lights. At the end of 2013, InventDesign started pioneering on an in-house developed Art-Net LED driver. This led to a groundbreaking innovation, completely developed in Amsterdam by Dutch engineers. They were there, in the field, getting their hands dirty to find the most ideal base for all future lighting control requests.

An Art-Net controller, fully developed and designed by Dutch engineers in the Netherlands. DiGidot stands for genuine, fair and transparent development, based on both field experience and in-depth knowledge of the markets demands. This is why the company has beem growing rapidly the past 2 years.



DiGidot developments result in high-end technologies for many purposes in the digital lighting industry. Such high-end outcomes can only be achieved by keeping in touch with the latest industrial trends and using the most reliable materials.

DiGidot stands for perfection into every little detail. Not only in how the products are developed and produced, but also the way they are presented.


analog
microSD
DIGIdot C4

CONSTANTLY EVOLVING LED DRIVER FOR THE LIGHTING INDUSTRY

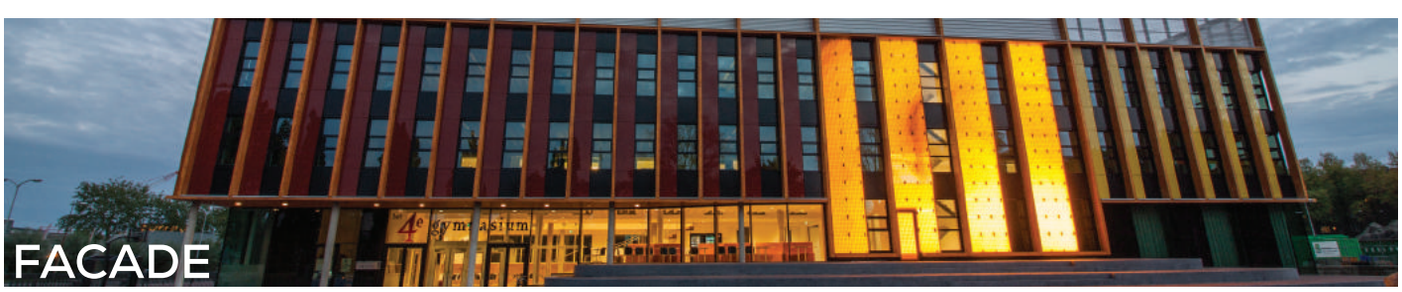
In 2013, the development of an Art-Net device was started. Days and nights passed, but the results are impressive! One device with great features for the lighting industry; a bridge to integrate your lighting with any other system, a pixel-controller, an Art-Net node, a show recorder and a trigger device, all in one.

The driver has 4 outputs for which you choose the protocol that suits your installation best. Whether it's an LED pixel working with one of the many addressable LED drivers, PWM signal or the well-known DMX protocol, the DiGidot C4 covers it all! At maximum load, the DiGidot C4 drives 1536 channels on each of the 4 outputs, that is a total of 6144 channels. After a long testing period with over 2000 devices in countless installations, we can now confidently say; the DiGidot C4 has proven its potential and is ready to conquer the market!

CAN I...

control over 40+ addressable LED drivers?	YES!
control up to 6144 (12x512) individual LEDs?	YES!
record Art-Net or DMX signal and easy playback the scenes?	YES!
trigger over UDP, HTTP-GET, Art-Net, DMX, through on-board switch, on power up, by clock timing or with analog input?	YES!
playback scenes through a smartphone or tablet app?	YES!
use Art-Net Sync?	YES!
merge Art-Net inputs?	YES!
daisy chain multiple DiGidot C4 devices?	YES!
change dimming curves?	YES!
repeat and combine channels?	YES!
use this device without installing configuration software?	YES!
use build-in WiFi to playback trggers or scenesv?	YES!
update the firmware easily?	YES!
easily upgrade my DiGidot C4?	YES!

APPLICATIONS CAN BE FOUND EVERYWHERE



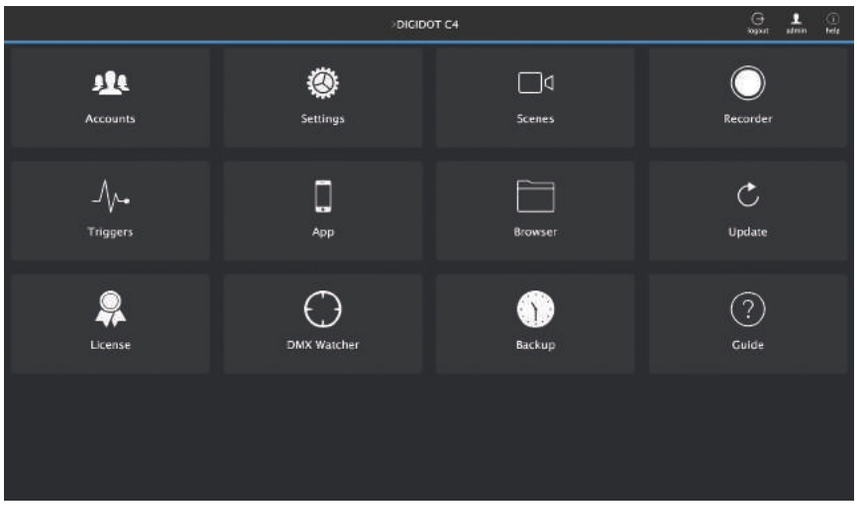
AN INTERFACE WITH THIS MANY OPTIONS WAS NEVER THIS INTUITIVE BEFORE

You might have noticed that DiGidot aims to make light control easy for everyone. The intuitive web-based user interface makes the setup of the device as simple as it gets. The DiGidot C4 user interface is embedded in the device, which makes downloading and installing additional software unnecessary. The HTML5 interface is optimized for Google Chrome and Safari on all platforms. The user interface has a clean look and feel and clear explanations that leaves you a minimal learning curve. With DiGidot C4 Extended, trigger actions like power-up, time-based, contact-closure over analog, Art-Net input, DMX input, UDP and HTTP can be assigned on the fly.

Download on the App Store

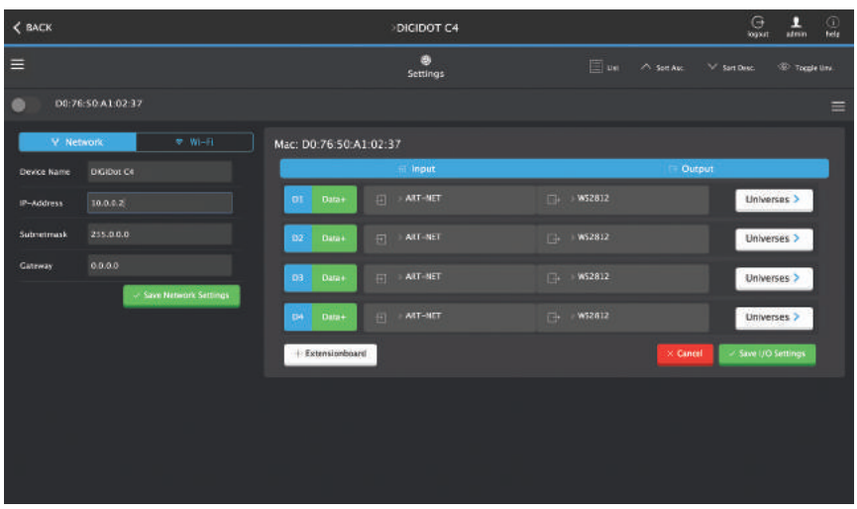
GET IT ON Google Play

www.digidot.eu/c4/app

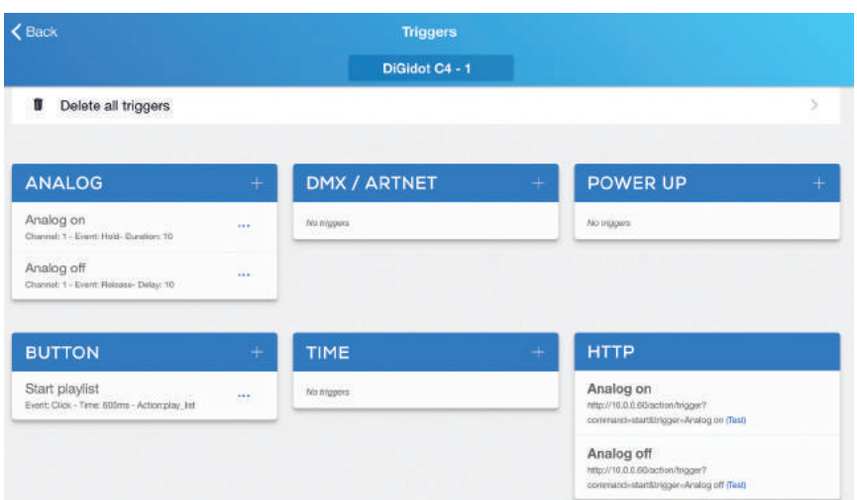


WEB INTERFACE

The DiGidot C4 user interface allows you to have full control over the user accounts and rights, the basic and advanced settings, scenes and recordings, updates and much more!

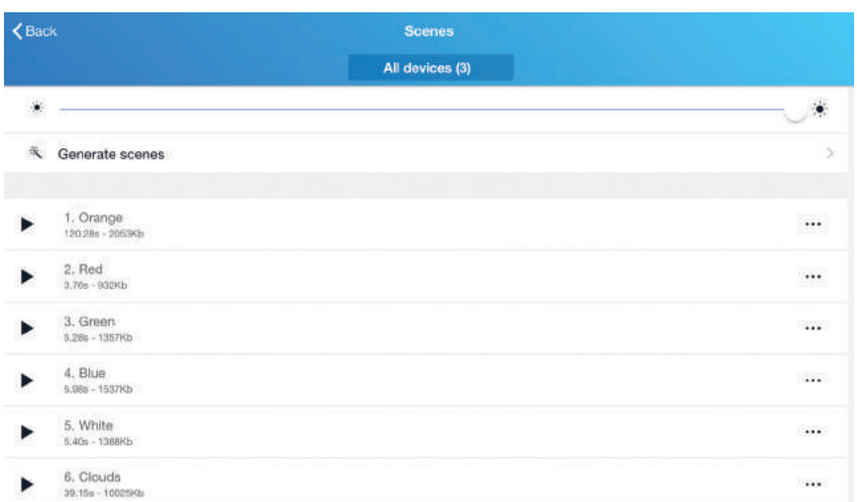


Use the settings page to setup all the inputs and outputs of the DiGidot C4 and configure your device network settings easily.



NATIVE APP INTERFACE

The user can create triggers with all kinds of input for example: on power up, analog, DMX, Art-Net, HTTP GET, UDP, time, and the onboard button.



The DiGidot C4 Extended can record from Art-Net or DMX input and playback your scenes. This makes the DiGidot C4 Extended a stand-alone playback device in your setup.

ENDLESS POSSIBILITIES

DiGidot C4 LIVE

The goal is to work with worlds most common protocols. Both Art-Net and DMX can be used as input and output protocols on the DiGidot C4. Do you work with a different protocol? No worries, over 40 addressable LED drivers have been added to the DiGidot IC library; both well known as more exotic IC protocols.

Output settings

Each of the four digital outputs on the DiGidot C4 can control up to 1536 individually controllable LEDs in its most ideal setup. That's up to 6144 individual channels in total. You can freely change the protocol of the outputs, assign universe numbers, change the start address and change the advanced settings of each universe. A couple of the most interesting ones:

- Adjustable color order
- Repeat channels
- Combine channels
- Multiple dimming curve options
- Art-Net IP address filtering

Merge inputs

When you're working with a setup using multiple sources of Art-Net input, the DiGidot C4 can merge the two inputs based on a HTP-merge called parallel universe. Our HTP-merge has proven itself during a live show with 200 Art-Net universes.

Extremely efficient infrastructure

Previously some installations required multiple Art-Net to DMX nodes and DMX to SPI decoders, where the DiGidot C4 is all of that in one. It replaces 12 Art-Net nodes and SPI decoders. So you can say; less devices, less cabling, less installation time meaning less costs. Furthermore, the DiGidot C4 comes with a build in ethernet switch, so you can daisy chain multiple DiGidot C4 devices.

DiGidot C4 EXTENDED

There are occasions in which the lighting installations require stand-alone solution that can do recording, playback or trigger. The DiGidot C4 Extended controller brings you exactly those specific features.

Playback or trigger recorded scenes

Two of the best features of the DiGidot C4 are recording and playback functions, that allow you to easily record your input and process the recording into a flawless looping scene. The DiGidot C4 comes with an 8GB industrial graded MicroSD card to store all of your scenes (60 frames per second). You can use the trigger functions, the DiGidot mobile app or the API to playback your recorded scenes.

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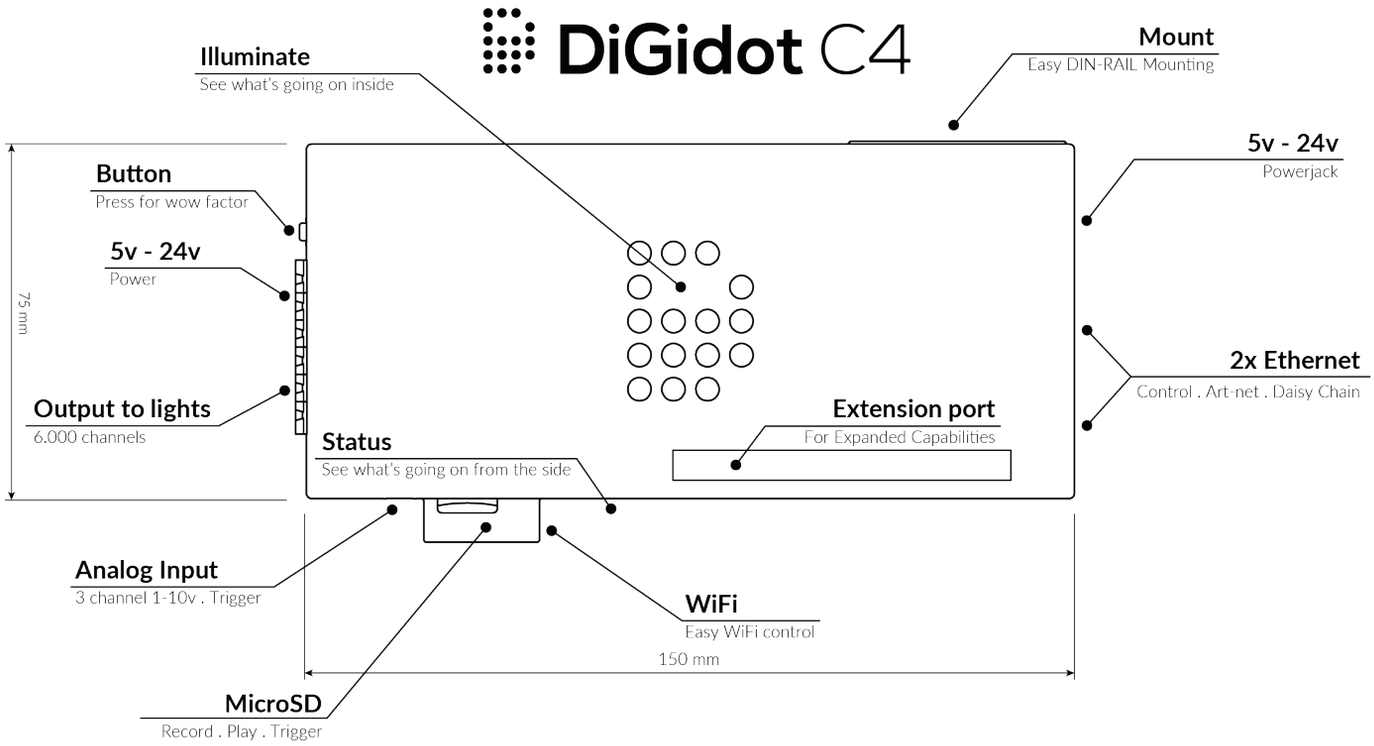
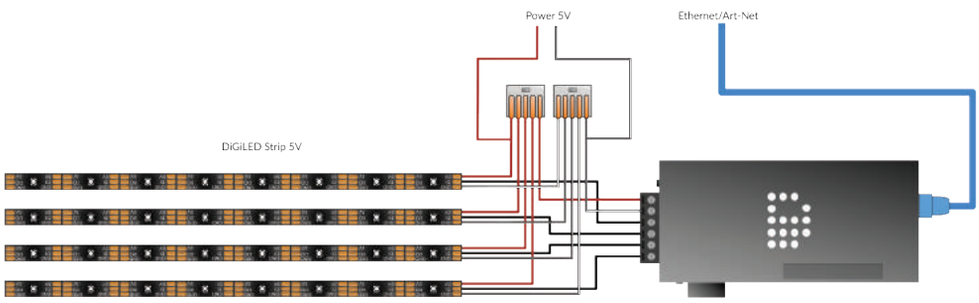


Electrical	Input voltage	5-24V DC
	Max. power consumption	5W
Mechanical	Housing	Acrylonitril-butadieen-styreen
	Dimensions	153(w) x 74(d) x 28(h) mm
	Weight	140gr
	Mounting	DIN rail or flat surface mount
Environmental	Operation temperature	0 to 50 °C / 32 to 122 °F
	Operating relative Humidity	90% indoor use only
	Warranty	2 years
Protection	Power	Reverse polarity
	Digital input / output	Overvoltage protection (max 24V)
	Analog input	Overvoltage protection (max 30V)
Control	Control	Up to 12 Art-Net Universes or 2 DMX universes
	Channels	Up to 6144 Art-Net channels or 1024 DMX channels
	Input protocols	Art-Net, DMX, DiGidot App, UDP, HTTP GET
	Output protocols	DMX, DMX TTL
	Addressable LED drivers	APA102, APA104, APA106, BS0901, DM412, DMX, DMX TTL, GW6205, INK1003, LD1510, LPD6803, MBI6024, MY9221, MY9231, PC5XS301V0500, SK6812, SK6812RGBW, SM16703, SM16716, SM16726, TM1803, TM1804, TM1809, TM1812, TM1914A, UCS1903, UCS1904, UCS2903, UCS2904, UCS2912, UCS512B3, UCS8904, UCS9812, WES9412, WS943, WS2801, WS2803, WS2811, WS2812, WS2812B, WS2812S, WS2813, WS2818
	Output connector	Pluggable terminal block with 4 ports
Authority	Regulations	CE; cETLus listed

CONNECT

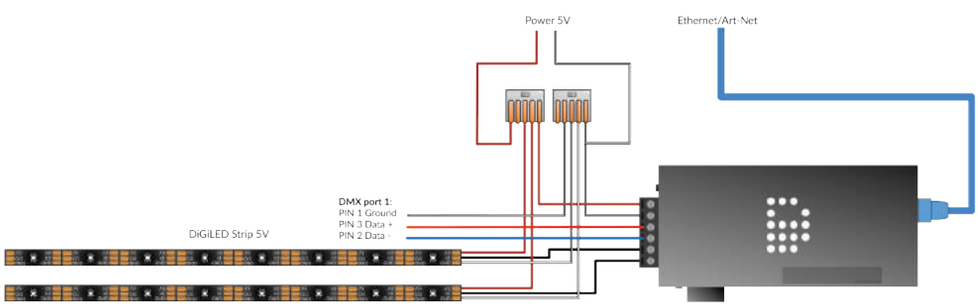
Example 1 - Single wire SPI output

In this example we use 4 outputs, each to drive DiGidot WS2812B LED strips. Every output can drive up to 510 pixels. In order to power all LED strips only one power supply is needed. The same power supply is also used for the DiGidot C4. Make sure all ground wires are connected together. The device is connected to the ethernet, which contains the Art-Net signal.



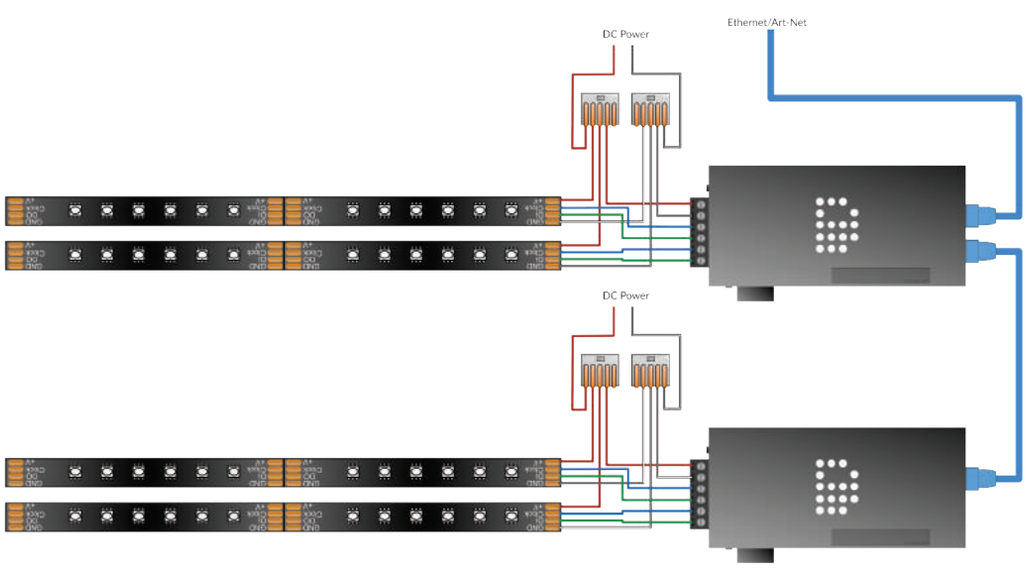
Example 2 - DMX input with two single wire SPI outputs

Port 1 and 2 are used for DMX input. This can be used to control single wire SPI lights on port 3 and 4 or to trigger recorded scenes.



Example 3 - Double wire SPI output

Here we see two DiGidot C4 devices lined up. The example shows a double wire SPI LED strip which uses a data and clock signal. For this type of signal you need two wires. In this case we use D1 and D2 for the first LED strip, D3 and D4 for the second LED strip.



PRODUCTS

DiGidot C4 LIVE

The DiGidot C4 Live is a small and powerful LED controller, that suits all kinds of situations. One device drives more than 6000 single LEDs. Furtermore, it supports 40+ addressable LED drivers and various industry standards. This is all you need in LED and showcontrol! With the built in user interface, the DiGidot C4 is easy to setup trough a web browser.

4 Universes / 2048 channels

8 Universes / 4096 channels

12 Universes / 6144 channels

DiGidot C4 EXTENDED

The DiGidot C4 Extended combines the capabilites of the DiGidot C4 Live and adds recording and triggering functions that allow complete stand-alone running of complex lighting installations.

List of triggers:
Power Up, Analog Input, Onboard Switch, Time, HTTP GET, UDP, Art-Net/DMX.

1 Universe / 512 channels

2 Universes / 1024 channels

4 Universes / 2048 channels

8 Universes / 4096 channels

DiGidot C4 ACCESSORIES

DiGidot PWM16

Extension board with 16 x PWM output

DiGidot TX/RX

Sending/Receiving card for use with the DiGidot RX for sending data over long data cables

DiGidot SD8

8 GB industrial graded microSD

DiGidot TRRS

A TRRS mini jack 3.5 mm for 3 analog triggers