

# Catalogue Portfolio

## 2024



 **DiGidot**  
PUSHING CONTROL BOUNDARIES

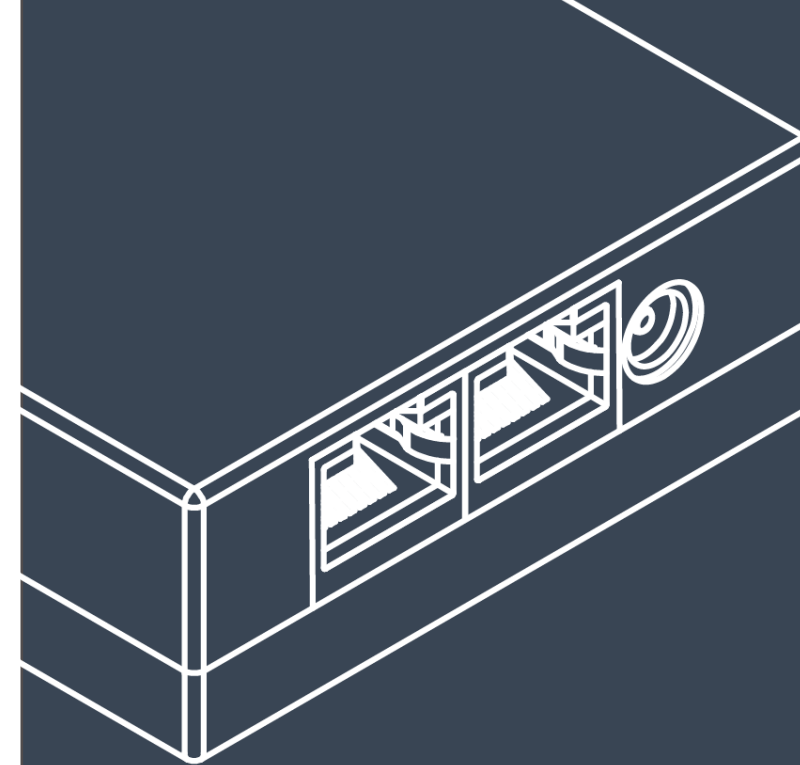
# Pushing Control Boundaries

*DiGidot Technologies is a passionate tech company that develops innovative products for a wide range of lighting control applications. We empower our clients to unleash their creativity in the realm of dynamic lighting!*

## History

Our DiGidot journey commenced with our founder Stefan Verhoef's quest for optimal solutions tailored to demanding dynamic lighting projects. We aspired to craft the perfect controller for managing SPI-driven fixtures as well as other protocols like DMX. Given the absence of an ideal controller for all our purposes, we took it upon ourselves to create one – the DiGidot C4. Since 2016, our exclusive focus has centered on the DiGidot pixel control system. Today, our dedicated team of embedded developers stands ever-ready to confront any challenge.

Pixel control made easy



### Innovative

Pixelating surfaces, beyond just color and brightness control.

### Reliable

Hardware for 24/7 use, upgradable components for enhanced maintenance

### Versatile

Easy scalability, from small-scale events to large-scale installations.

### Industry standards

Compatible with a range of industry standards, including Large range of industry standards such as DMX, Art-Net and sACN. Easy to integrate.

### Easy to use

Intuitive interface, plug-and-play setup and remote management. Easy to set up, control, and manage.

### Dedicated team

Extensive technical support from embedded developers in the Netherlands

### Always up-to-date

Free online or offline firmware updates.

## Full solution for pixel controlled projects

### DiGidot Hardware

C4 Live with NFC  
C4 Extended with NFC  
PxLNet Node  
PxLNet Extenders  
PxLNet Smart Receiver  
PxLNet Smart Receiver Din-rail [Coming soon](#)  
PxLNet PowerNode [Coming soon](#)

### DiGidot Software

Web interface  
App  
Upgrades  
Updates

### DiGidot Cloud

Connect (IoT Bridge) [Coming soon](#)

## What is DiGidot?



# Transito

**BAR Anne, Milan, Italy**

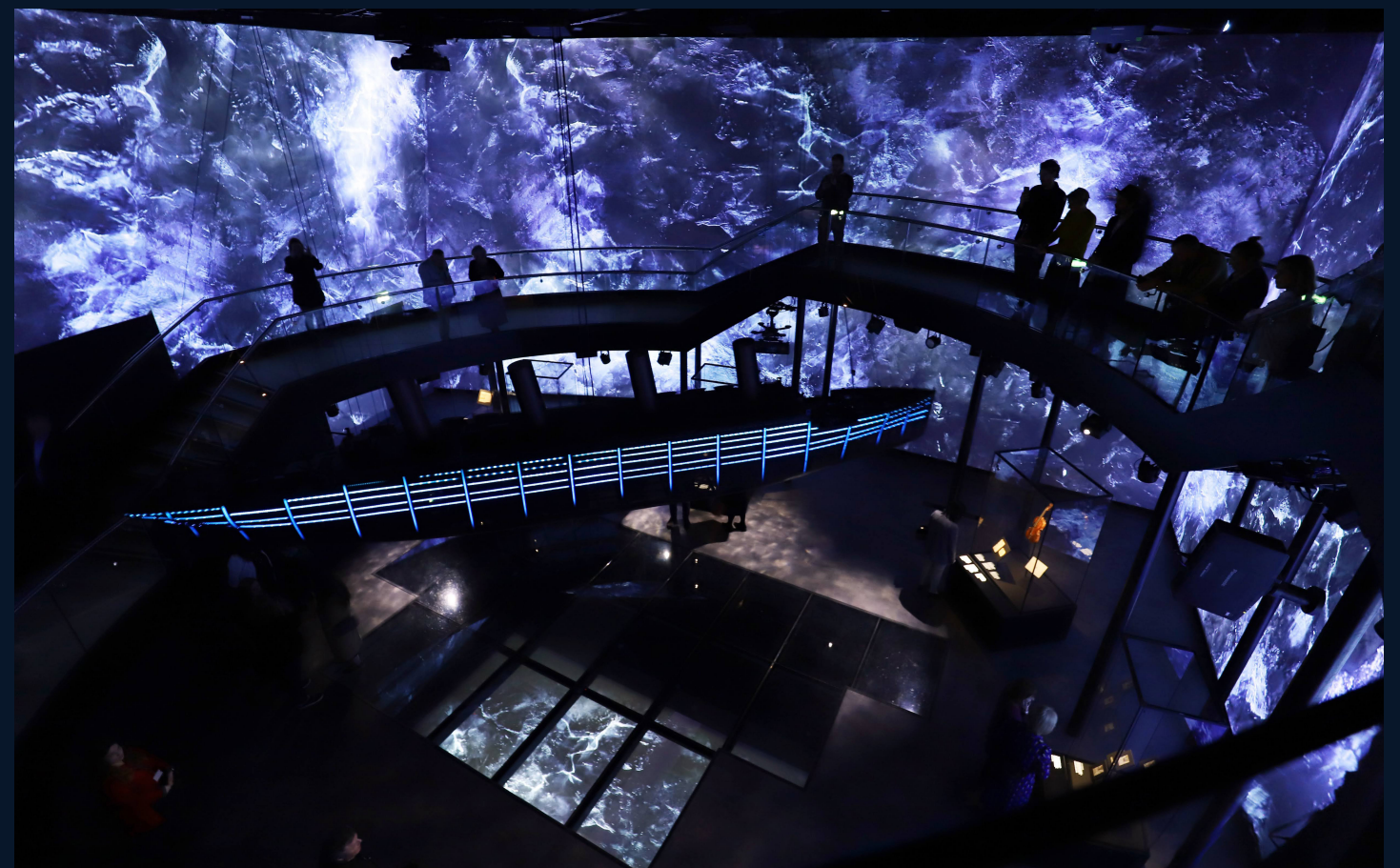
Featuring:  
25x DiGidot C4 Live 12



# Titanic

**Titanic Belfast Museum,  
Northern Ireland**

Featuring:  
2x DiGidot Live 12, 2x DiGidot Live 8, 1x DiGidot Live 4





# C4 Live

All in one: DiGidot C4 Live provides a solution for nearly every situation. Our powerful C4 Live controller provides a user-friendly programming experience with full functionality on any device. Easily control individual pixels in complex lighting products.



## Features

- Up to 24 universes (12.288 channels)\*
- Supports more than 60 protocols
- Art-Net + DMX + sACN in & out
- Compact size
- Wide voltage range (5-24 Vdc)
- Easy to connect
- Web interface & free App
- Reliable & easy to use
- NFC

- Brightness & power limiter
- Gamma correction
- Art-Net filter-Built in WiFi (access point & client mode)
- Color order adjustment
- System monitor with Art-Net & DMX watcher
- Highlight ports
- Status lights
- Create segments and repeat channels to reduce input channels
- 16 bit dimming support
- Adjustable background/fallback color
- Backup & restore feature
- User accounts with rights restrictions
- Interface dark mode
- Built in web interface and easy to use getting started wizard

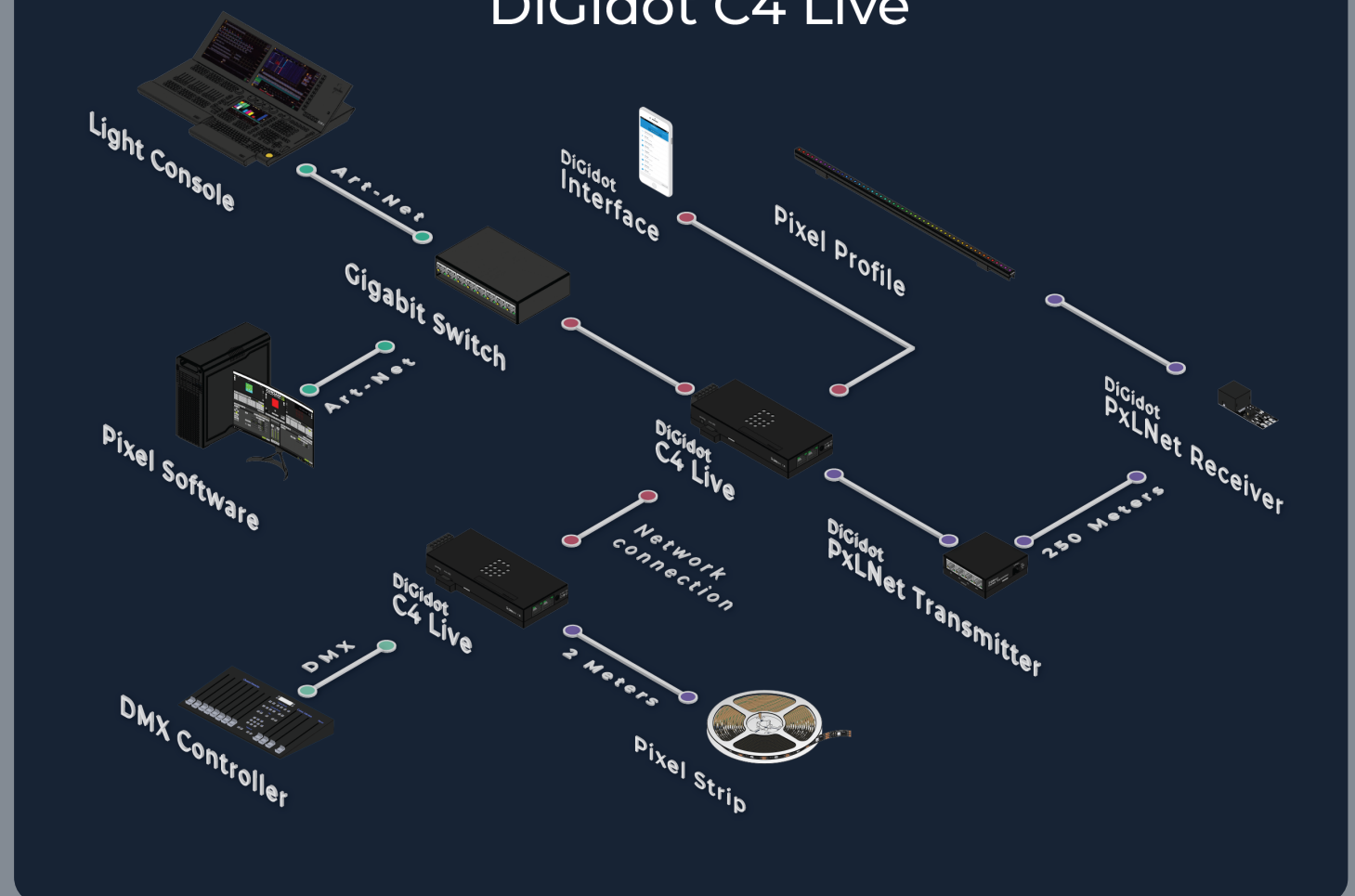
## C4 Live models

- C4 Live 4  
4 Universe 2048 channels
- C4 Live 8  
8 Universe 4096 channels
- C4 Live 12  
12 Universe 6144 channels
- C4 Live 16 Expert\*  
16 Universe 8192 channels
- C4 Live 24 Expert\*  
24 Universe 12288 channels

\*Expert licenses can only be fully used for a few SPI protocols, please check the DiGidot C4 performance guide to check compatibility for your setup.

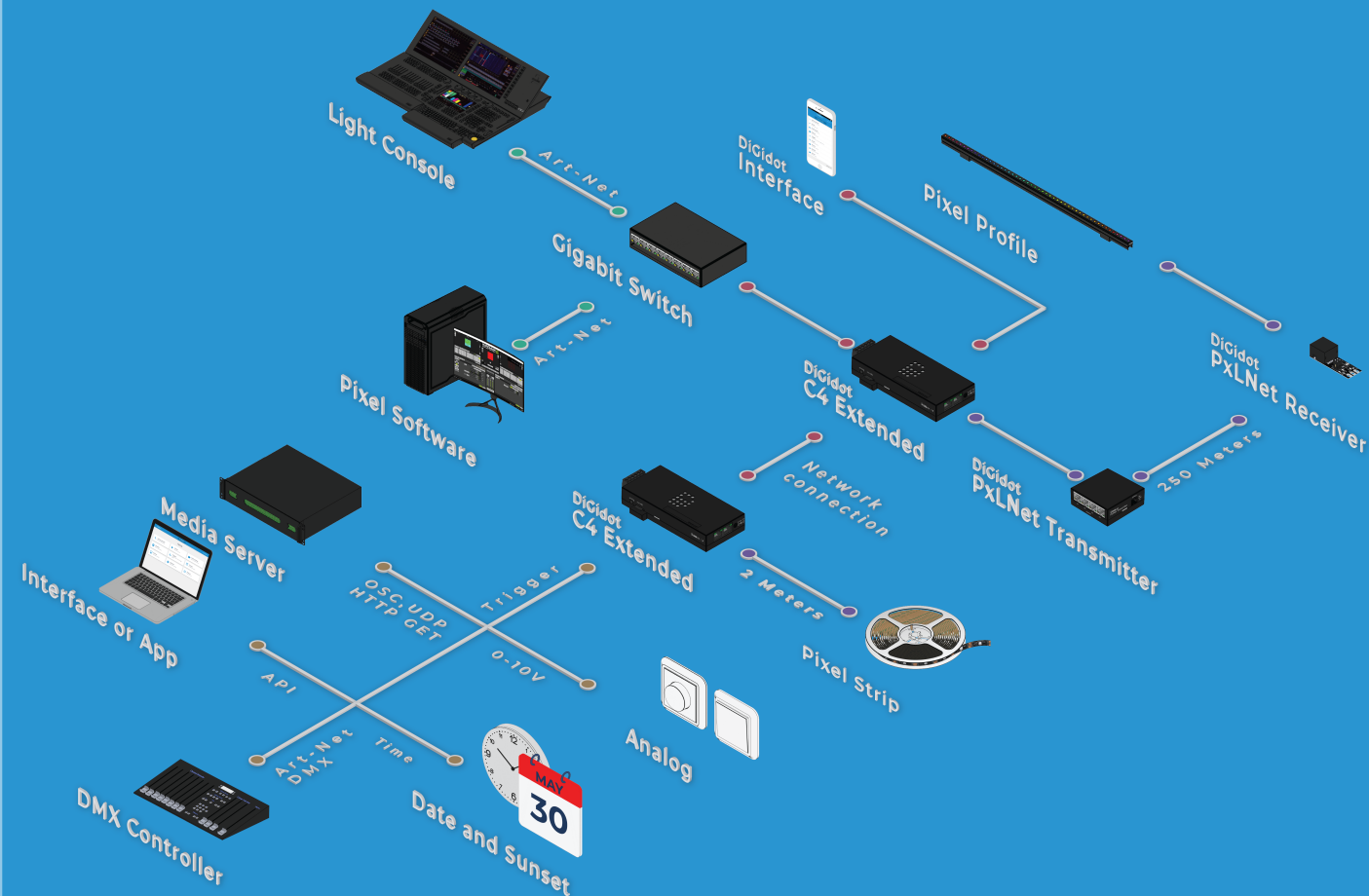


## DiGidot C4 Live



Infrastructures will never look the same once you've worked with the DiGidot C4. The DiGidot C4 Live can be daisy chained up to five devices. By adding a simple gigabit switch to network you easily scale up the number of DiGidot C4 controllers in a network.

## DiGidot C4 Extended



With DiGidot C4 Extended you can trigger actions like playing a scene or playlist, adjusting the brightness, speed or changing the colours. Scenes and effects can be recorded from input signals like Art-Net and DMX.

### Features

- Up to 8 universes (4.096 channels)
- Supports more than 60 protocols
- Art-Net + DMX in & out
- Art-Net/DMX recording & playback
- Analog & digital triggers
- Compact size
- Wide voltage range (5-24 Vdc)
- Easy to connect
- Web interface & free App
- Reliable & easy to use
- NFC

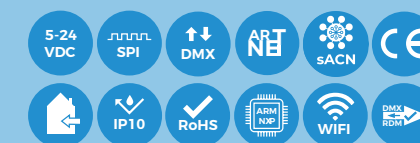
### C4 Extended models

C4 Extended 1  
1 Universe 512 channels

C4 Extended 2  
2 Universe 1024 channels

C4 Extended 4  
4 Universe 2048 channels

C4 Extended 8  
8 Universe 4096 channels

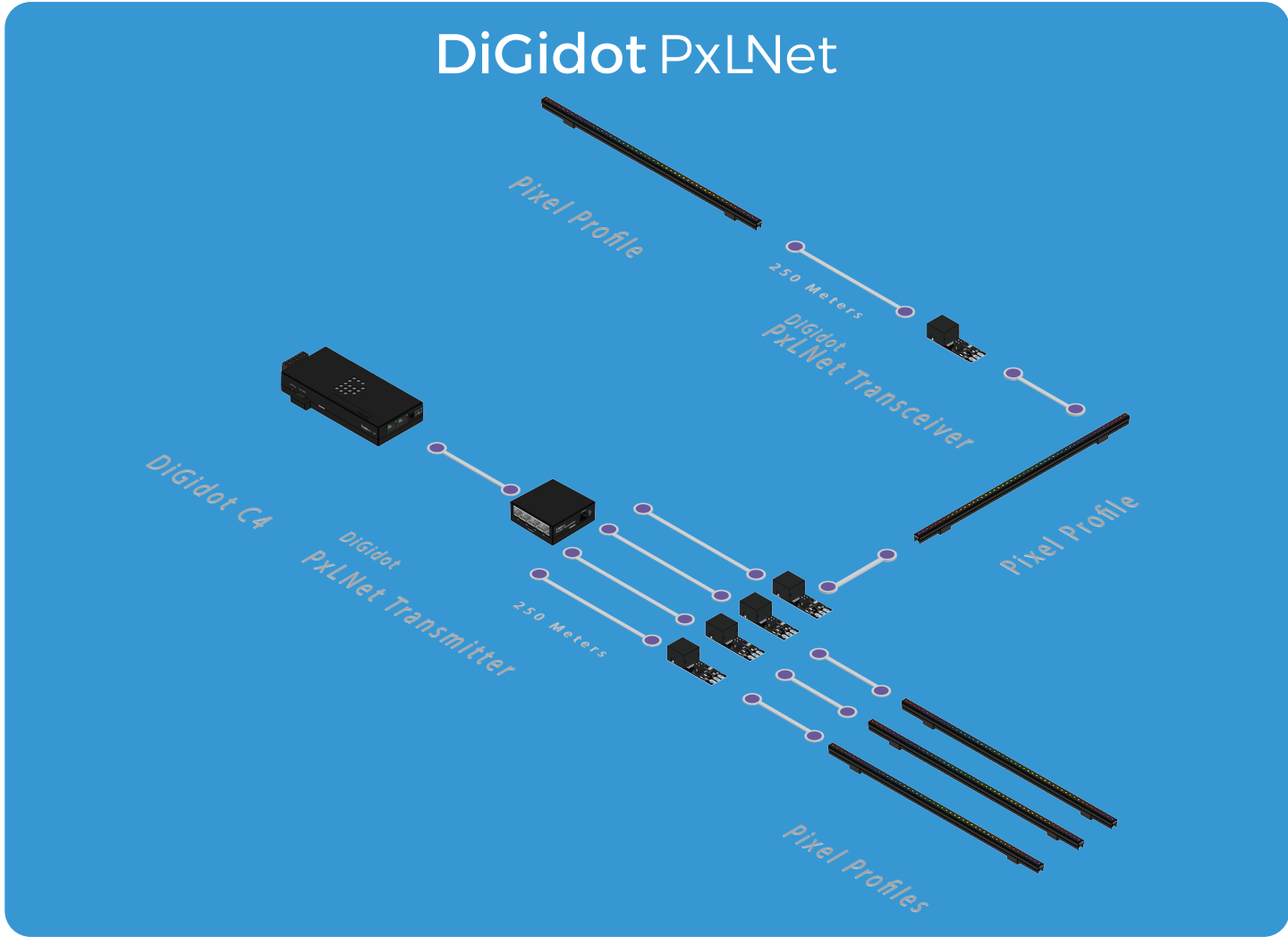


- Playback adjustments
  - Brightness
  - Speed
  - Color
- Scene generator for static colors and color scroll effects
- Playlists
- Fall back/background scene
- Triggering
  - Max. 3 Analog signals such as 0-10V & potentiometer
  - Max. 3 Dry contacts for switches and relays
- Startup
- Onboard button
- Built in calendar
- Sunrise/sunset
- Art-Net, DMX and sACN triggering
- UDP in & out
- OSC in & out
- HTTP-Get



All in one and more: DiGidot C4 Extended is the ultimate stand alone pixel control solution. On top of the C4 Live features it adds many extra features such as an Art-Net and DMX playback recorder, countless powerful triggering and automation options.

# C4 Extended



With PxLNet it is possible to extend the SPI signal up to 250 meters (820 ft). PxLNet products redefine your project experience by simplifying infrastructures and streamlining installation processes, ensuring an easy setup.

### PxLNet Transmitter

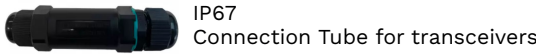
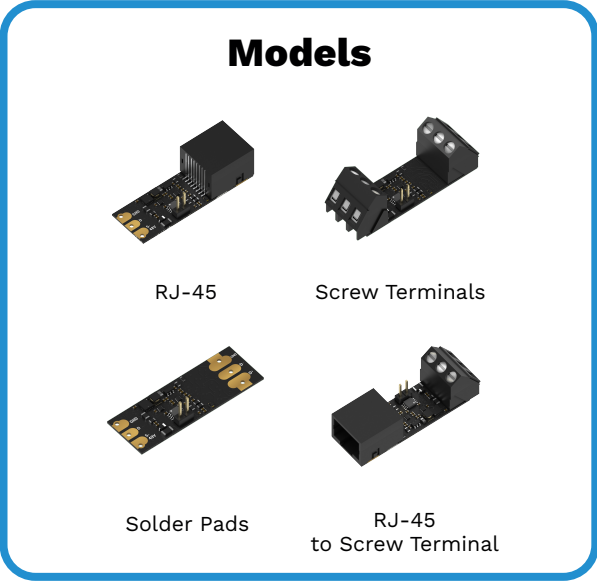
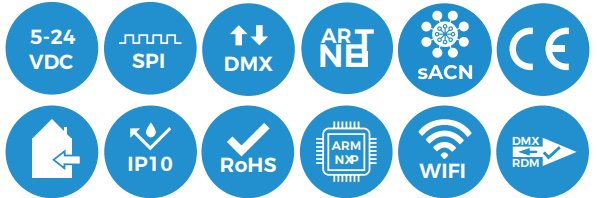
This add-on module converts (data only) protocols to PxLNet which can be transmitted up to 250 meters away. A Transceiver is required to convert the signal back to the original protocol for your LED product.

- Connects directly to DiGidot C4 IO port
- Converts SPI and DMX TTL to PxLNet and DMX respectively
- Flexible operating voltage from 12 to 24 Vdc
- 4 protected RJ45 bus ports for PxLNet
- Can be used with any third-party SPI controller

### PxLNet Transceiver

A small sized module that connects to the beginning or end of an LED product. It converts PxLNet to the original (data only) SPI protocol for your LED product up to 250 meters away.

- Flexible operating voltage from 5 to 48 Vdc
- RJ45 bus for PxLNet in/out
- Status LED indicators for power and incoming data
- Auxiliary network cable break out solder pads
- Selectable operating mode (Receiver/Transmitter) by header jumper
- Over voltage protection
- Reverse polarity protection
- Data, Vcc and GND input and output connections on both sides



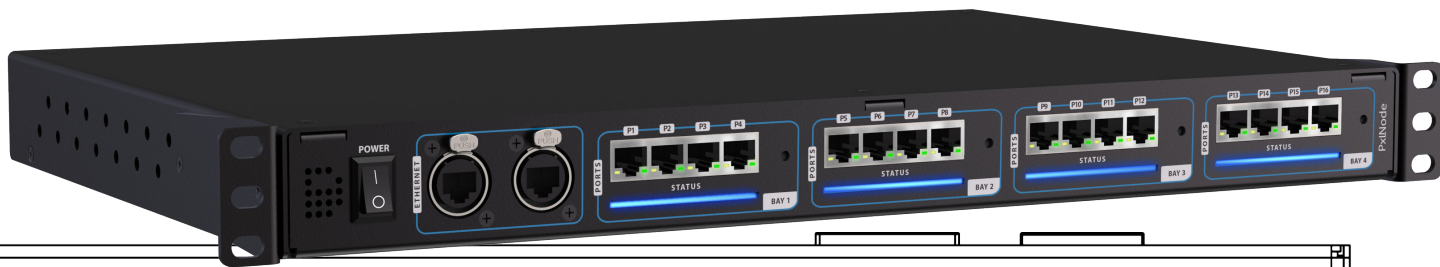
PxLNet is the DiGidot way of communicating high speed SPI protocols over large distances. This communication protocol is built for the future because it also supports RDM over SPI for upcoming products.

# PxLNet Extenders



# PxLNet Node

The DiGidot PxLNet Node is the most powerful rackmount pixel control system of its kind. It's easy-to-install and designed for long distance data transmission, ideal for entertainment, architectural, and landmark lighting projects.



## Features

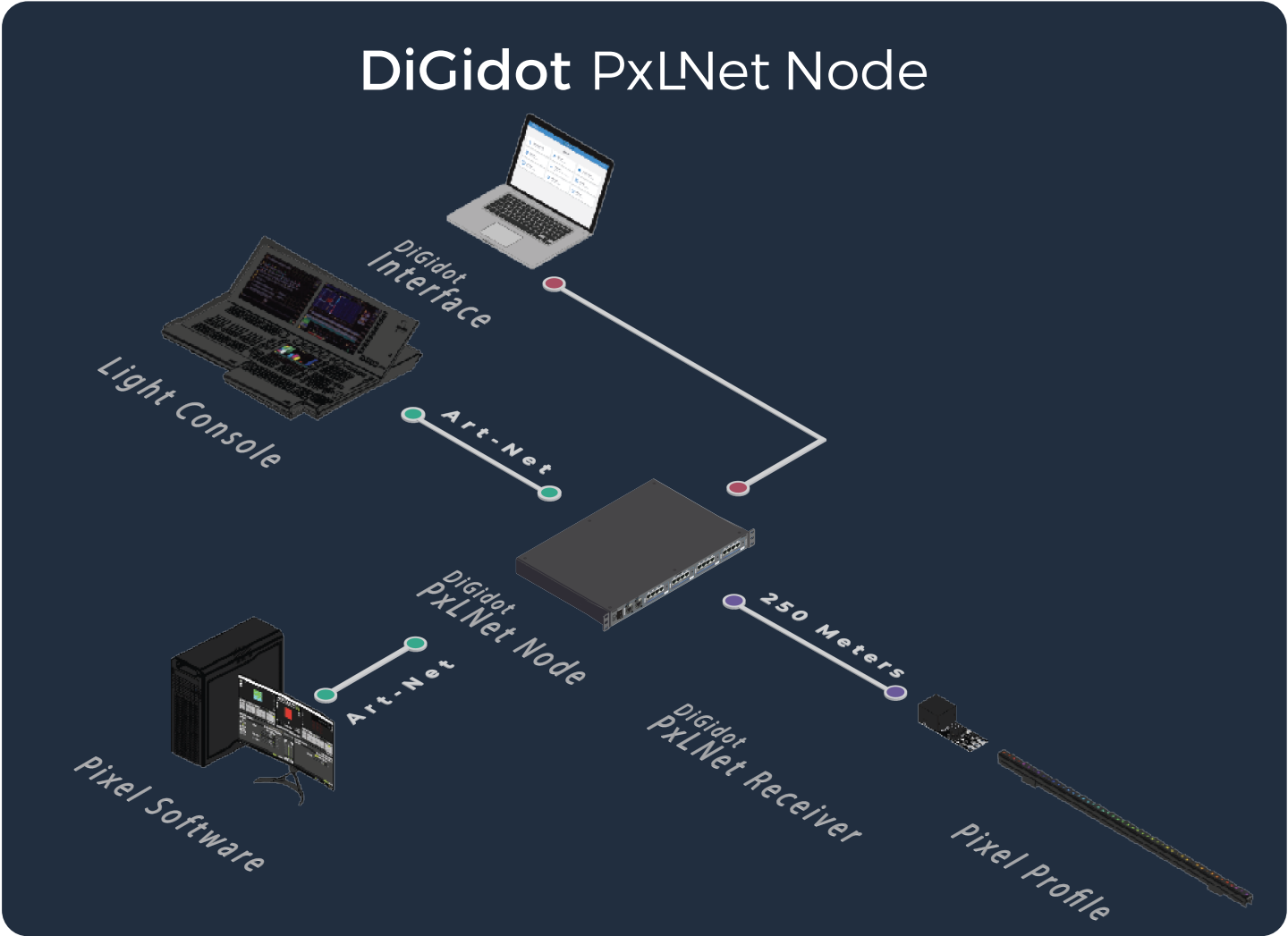
- Up to 96 universes
- 16 RJ45 PxLNet outputs
- Sends SPI up to 250 metres away
- Up to 16 DMX outputs
- Built in Gigabit switch
- 19" Rackmountable for server racks
- Control up to 49,152 channels (16,320 RGB pixels)
- Program individual pixels
- Choose 8 bit or 16 bit dimming
- Daisy chain controllers for larger projects
- Supports 60+ SPI protocols
- Long-distance controls (up to 250 metres)
- Indoor use only

## Models

DiGidot PxLNet Node U48  
Universes 48  
Channels 24,576

DiGidot PxLNet Node U96\*  
Universes 96  
Channels 49,152

\*Please check the performance guide to check compatibility for your setup.



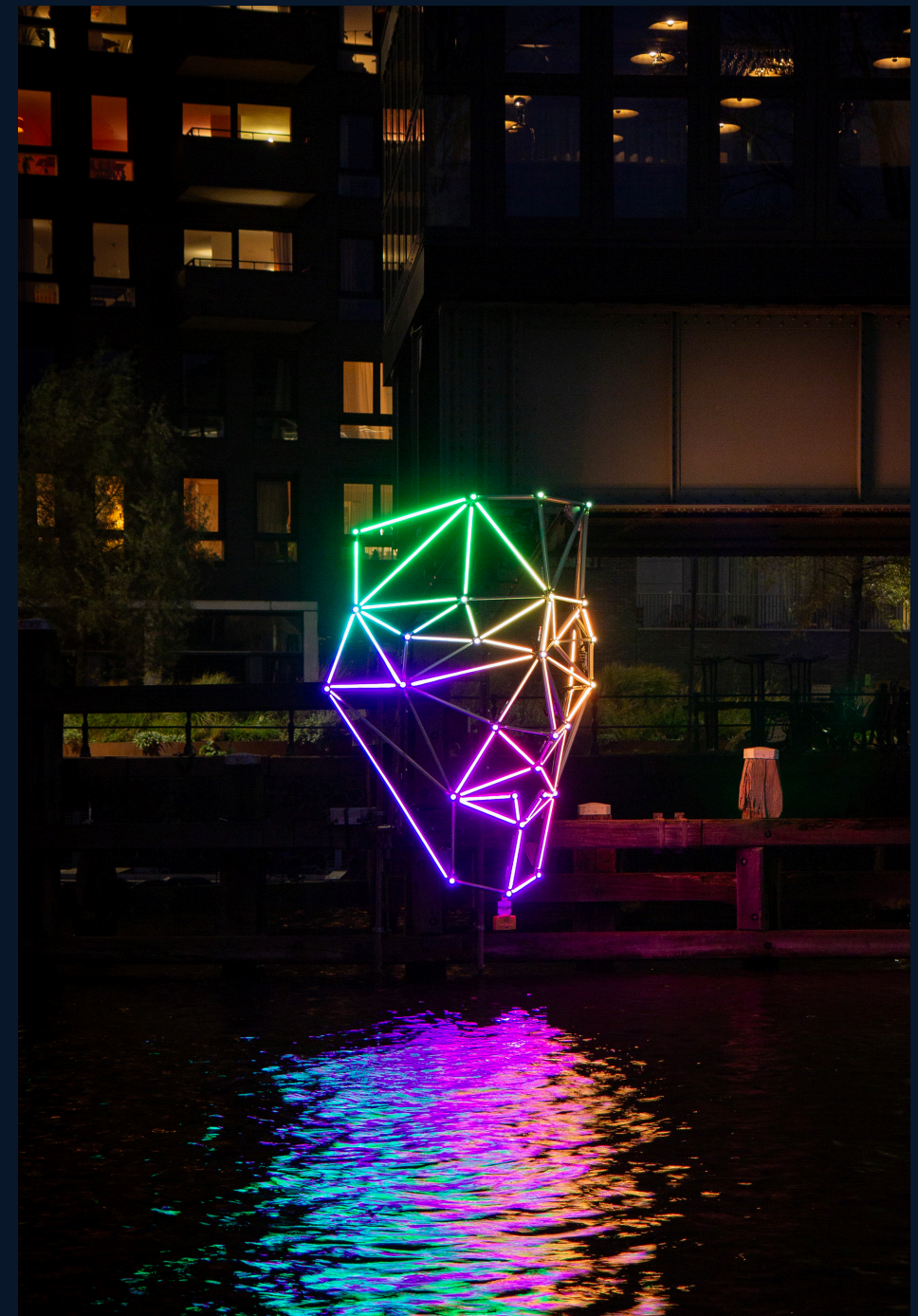
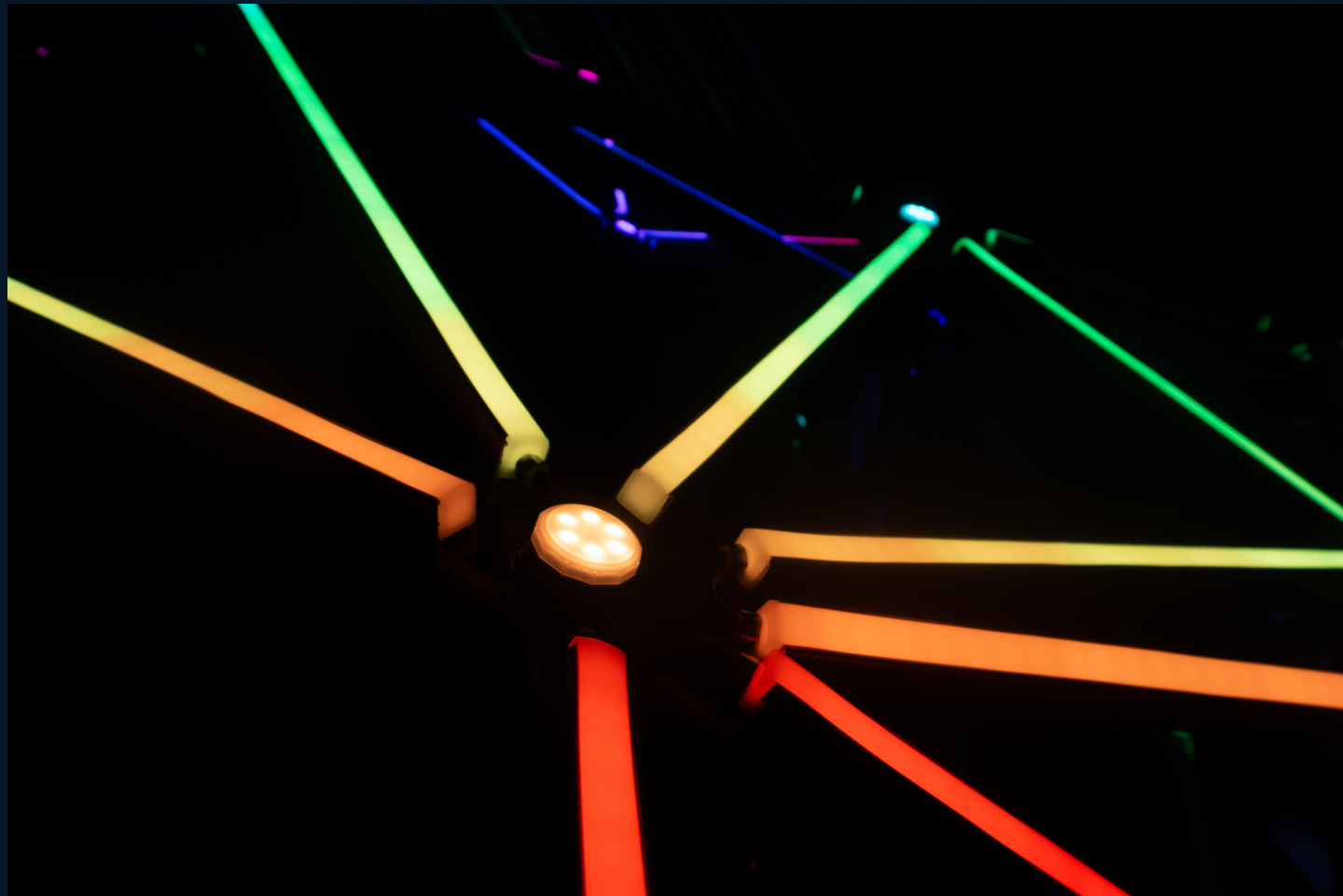
The DiGidot PxLNet Node infrastructure is quite similar to the DiGidot C4 Live, but it already includes Transmitters. With the build in gigabit switch you do not need an external one anymore. Connect multiple PxLNet Nodes together by making it very scalable.

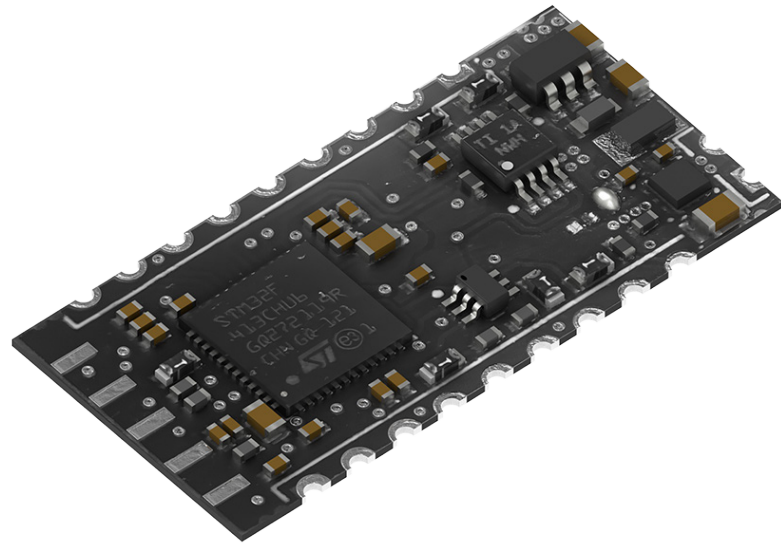


# Is it really you?

## Amsterdam Light Festival, The Netherlands

Featuring:  
2x DiGidot Extended 4, 2x DiGidot Transmitters





# PxLNet Smart Receiver

Turn ordinary LED fixtures into smart lights with the PxLNet Smart Receiver. Seamlessly integrate into the receiver in any LED fixture, unlocking a world of possibilities for enhanced control, customisation, and real-time adaptability.

## Features

### Easy to integrate

The PxLNet Smart Receiver is easy to integrate into any LED fixture. The module is small and lightweight, and can be easily connected to the fixture's PCB.

### One protocol for all fixtures

The PxLNet Smart Receiver makes it possible to control all LED fixtures in your installation with one protocol. This simplifies the installation and maintenance of your lighting system.

### Upgradable

The PxLNet Smart Receiver is upgradeable, so you can update the module's firmware with new features and improvements.

### RDM communication

The PxLNet Smart Receiver supports RDM communication, enabling the fixture and the controller to communicate with each other. This opens up a world of new possibilities, such as monitoring the status of the fixture and adjusting the fixture's settings remotely.

### Sensor integration

The PxLNet Smart Receiver has two inputs for sensors. These sensors can be used to monitor the status of the fixture or the environment.

### Pixel adjustments

The PxLNet Smart Receiver offers a number of possibilities for adjusting the pixels of the fixture. For example, you can create groups of pixels or adjust the grayscale of the fixture.



# Easy Connect

The DiGidot Easy connect is the most efficient connector for dynamic lighting controller on the market! It replaces complex installation boxes and makes installation and assembly up to 5 times faster and more safe.

## Features

### Work more efficient

The Easy Connect has only two power inputs, which are automatically switched. This means an efficient project infrastructure.

### Better protection

The Easy Connect has four swappable fuses for each output. These fuses offer additional protection against short circuits and other fault conditions.

### Easier maintenance

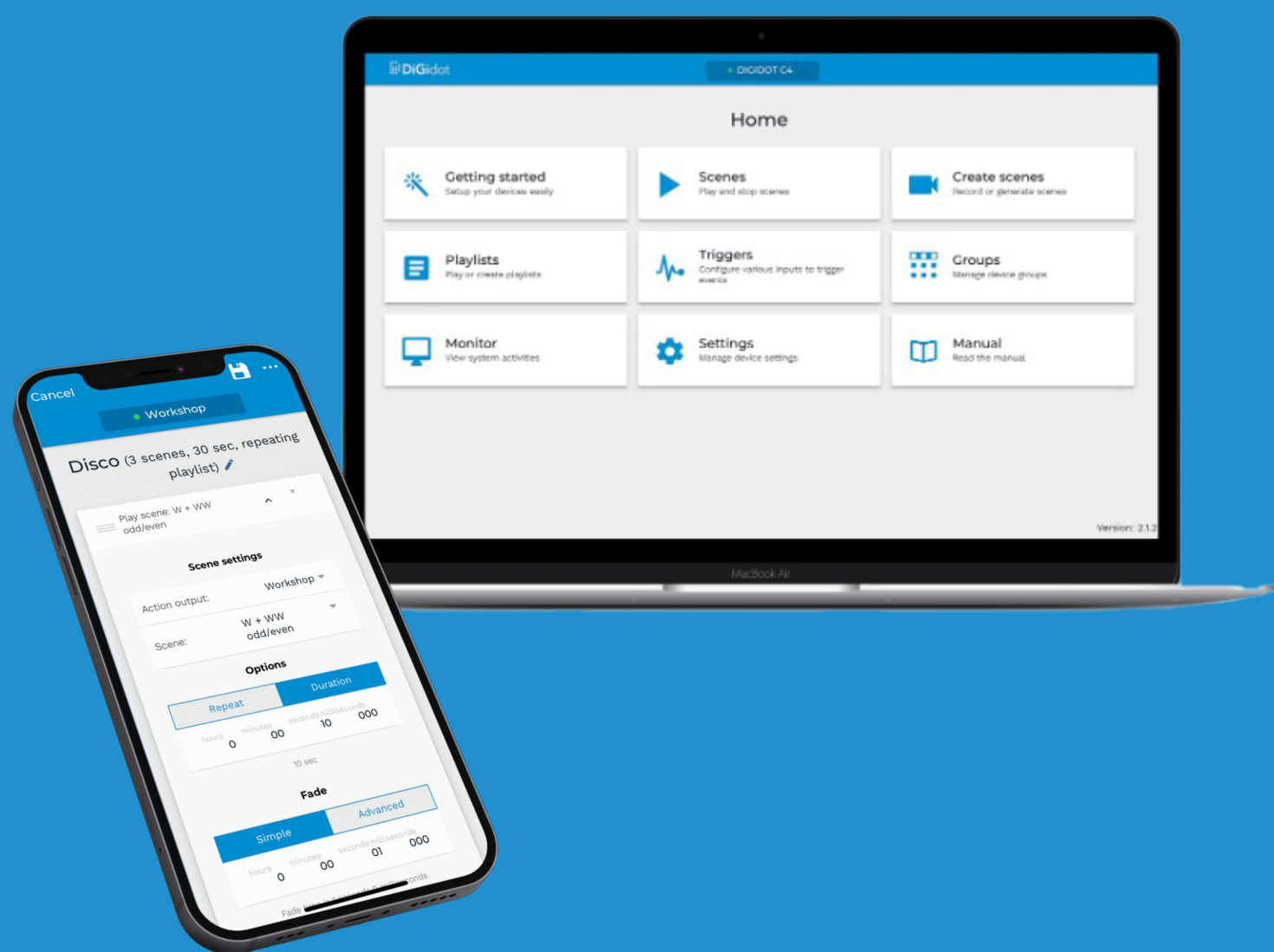
The Easy Connect has four status LEDs that indicate whether the output is under power. This makes maintenance of your lighting installation easier.

# New products



# DiGidot App and Web environment

The DiGidot App allows you to easily control and customize your LED installations from your mobile device, giving you complete flexibility and convenience in managing your lighting projects. With its intuitive interface and powerful features, the DiGidot App is the perfect tool for creating stunning visual experiences with your LED installations.



# DiGidot C4 Upgrades

DiGidot Upgrades empower is super easy and accessible and allows your creativity to shine across multiple universes.

## C4 Live

**Live 16**  
8192 channels

**Live 12**  
6144 channels

**Live 8**  
4096 channels

**Live 4**  
2048 channels

**Live 24\***  
12288 channels

\*Expert licenses can only be fully used for a few SPI protocols, please check the DiGidot C4 performance guide to check compatibility for your setup.

## C4 Extended

**Extended 8**  
4096 channels

**Extended 4**  
2048 channels

**Extended 2**  
1024 channels

**Extended 1**  
512 channels

## Open standard philosophy

The DiGidot C4 can be controlled from any industry standard DMX, Art-Net or sACN control software, console or media server. integrated in all major lighting and building management systems.



# All in one



# Galapagos

Leiden, The Netherlands

Featuring:

1x DiGidot C4 Extended 1, 42x DiGidot C4 Live 16, 42x Transceiver Kit





# Coming soon

## PxLNet Smart Receiver - Din-rail module

**Make your installations flexible and easier with PxLNet Smart Receiver DIN version. You only need to send out 1 protocol from our C4 controller and it will convert it to numerous protocols. Any conversion is possible: DMX to SPI, SPI to DMX, split the SPI signal into different lines, or even use it to split RDM to create multiple RDM universes.**

- Versatile signal converter: 1 unified input and 2 unified outputs
- DIN-Rail mountable
- Galvanically Isolated
- Long-range input by design, up to 250m for the controller to the input
- Convert to/from DMX (with RDM)/PxLNet/SPI
- Built-in power monitoring



## DiGidot PowerNode

**Unlock the Power: Our cutting-edge 19' rack mountable red to empower your setup like never before. With the capability to deliver up to 1 KW of power and accommodate 16 universes of C4 Extended data features, it's a game-changer in the industry.**

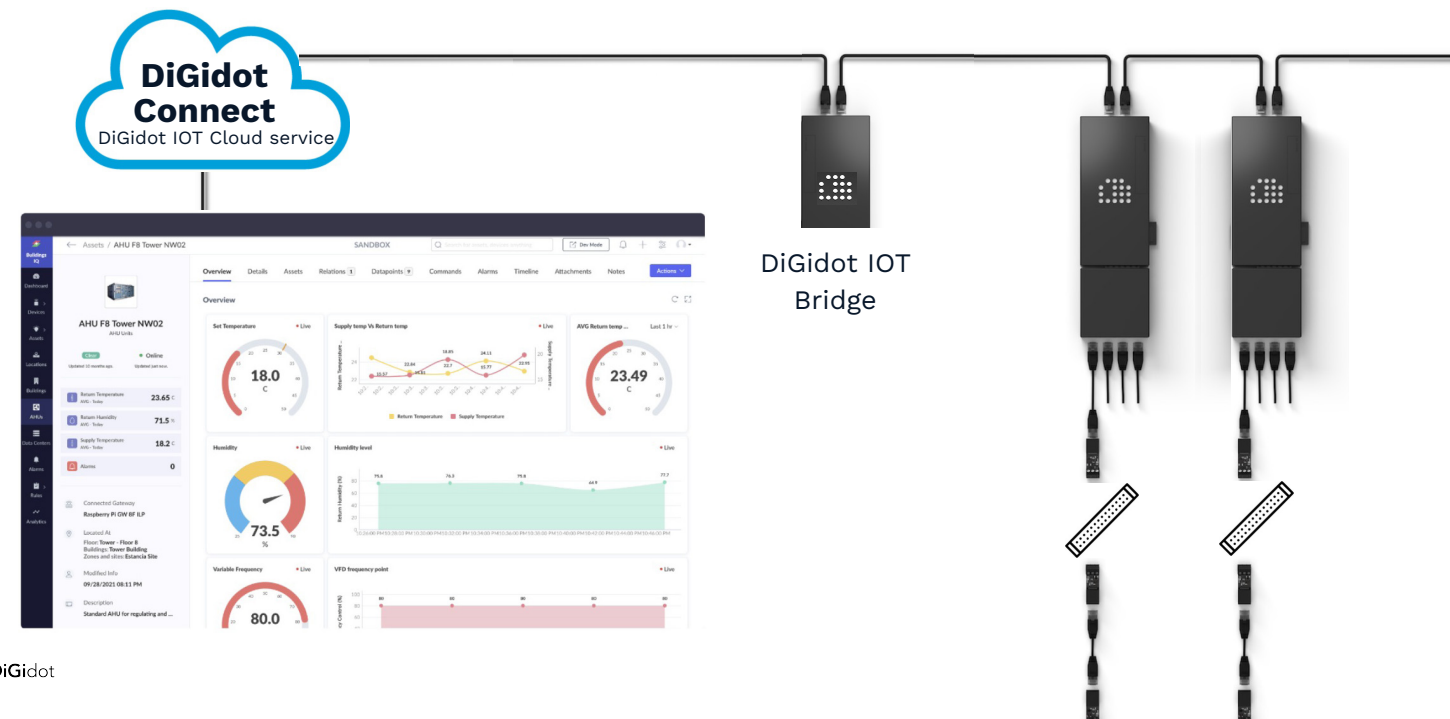
- Eight outputs with power and data
- Stand-alone solution
- C4 Extended Features
- Status LEDs Power standby feature
- 19" of black curved material



## DiGidot Connect / IOT Bridge / Cloud

**DiGidot Connect will offer a cloud connectivity which enable remote monitoring and many more advantages.**

- Get notified in case of any error
- Monitor power consumption of devices
- Get insight in hours components have been used
- High security due to the separated networks



**Follow us  
to stay  
up to date!**

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Amsterdam | The Netherlands

@digidottechnologies



## Instagram



LinkedIn



# Tech support for projects

Share your projects with us and we will help you to define the products to use to create the most efficient setups. We can pre-assemble cabinets and customize products so it can work with your designs best.

**Share with us and we will follow up  
with you [info@digidot.eu](mailto:info@digidot.eu)**





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