

DiGidot PxLNet Transmitter

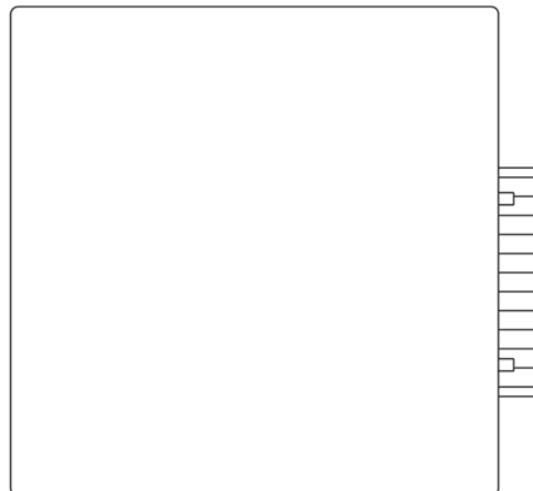
Specification sheet



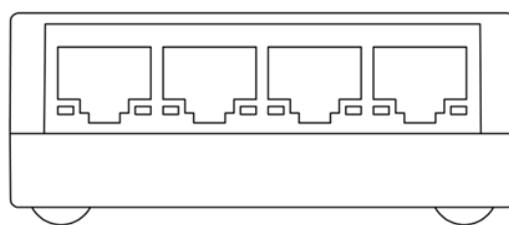
PUSHING CONTROL BOUNDARIES



The DiGidot PxLNet Transmitter is the ultimate solution for tackling the final challenges in large-scale installations. With this powerful tool, you can centralize your controllers effortlessly and fully leverage the PxLNet range, ensuring smooth, efficient control across even the most extensive setups. Say goodbye to limitations and enjoy the freedom of seamless, centralized management!



Top



Side

DiGidot PxLNet Transmitter

Specification sheet

Description

SPI protocols are sensitive to data distortion and often only work safely up to single digit of cable distance. The DiGidot PxLNet Transmitter is a small extension module that can be connected to the DiGidot C4 outputs. It converts SPI or DMX TTL signals to PxLNet in order to send them across large distance. Any industry standard SPI protocol that can be outputted from an SPI controller, can be converted.

Output the same number of universes with this transmitter as sent from the SPI controllers output port(s). This product can not only convert SPI protocols, but it also converts DMX TTL signals to standard DMX512. The PxLNet Transmitter can therefore be used to connect four differential DMX signals up to 500 meters away.

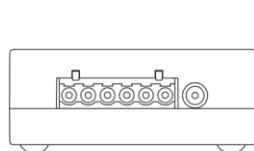
The onboard voltage regulator accepts voltages ranging from 5 VDC up to 48 VDC.

Installation is very easy thanks to the RJ45 outputs, which can be connected conveniently to our DiGidot PxLNet Transceiver modules.

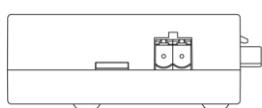
Features

- Connects directly to the DiGidot C4
- Converts SPI to PxLNet
- Converts DMX TTL to DMX
- Four RJ45 PxLNet ports
- Four fault conditioned protected outputs
- Flexible operating voltage (5 – 48 VDC)
- Inrush Limiter
- Built-in power supply for the DiGidot C4
- Can be used with any third-party SPI Controller

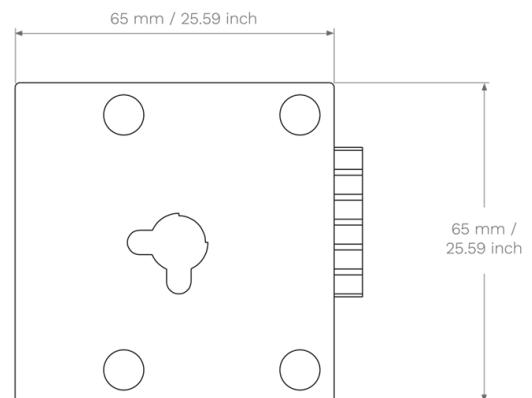
Technical drawings



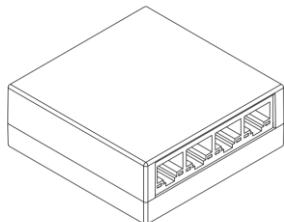
Input Side (H:30mm)



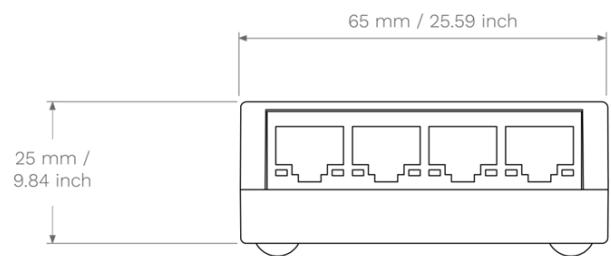
Power Side



Top



Isometric



Bottom

Specifications

Electrical

Input Voltage	5-48 VDC
Max. Power Consumption	1 W

Mechanical

Housing Material	Acrylonitril-Butadien-Styreen (ABS)
Dimensions	65 x 65 x 25 mm 2559 x 2559 x 984 mil
Net Device Weight	74 gr 2.61 oz
Package Weight	140 gr 4.94 oz
Mounting	Screw

Environmental

Operation Temperature (Tc)	0 to 50 °C 32 to 122 °F
Ambient Temperature (Ta)	40 °C 104 °F
Storage Temperature	-20 to 50 °C -4 to 122 °F
Operating Relative Humidity	90% (indoor use only)

Protection

IP Rating	IP40
DC Input	Inrush limiter, over- and undervoltage protection, reverse polarity protection

Control

Supported Protocols	SPI, DMX TTL, RDM
---------------------	-------------------

Connectivity

Max. Power Wiring	2,5 mm ² 12 AWG
Max. Data Wiring	0,2 mm ² 26 AWG

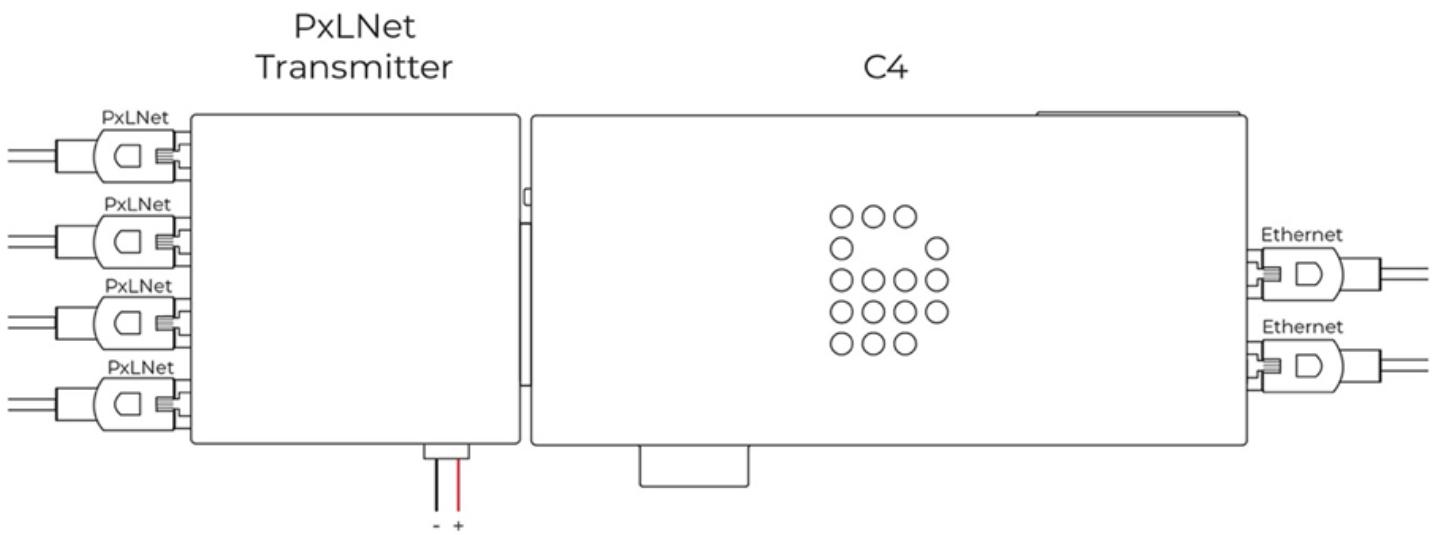
Quality

Warranty	5 years carry in factory warranty
Compliances	CE, RoHS, pending ETL (expected 2025)
Applied standards	EN60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013, IEC60950-1/EN60950-1, EN61006-6-3, EN55032

Wiring Schemes

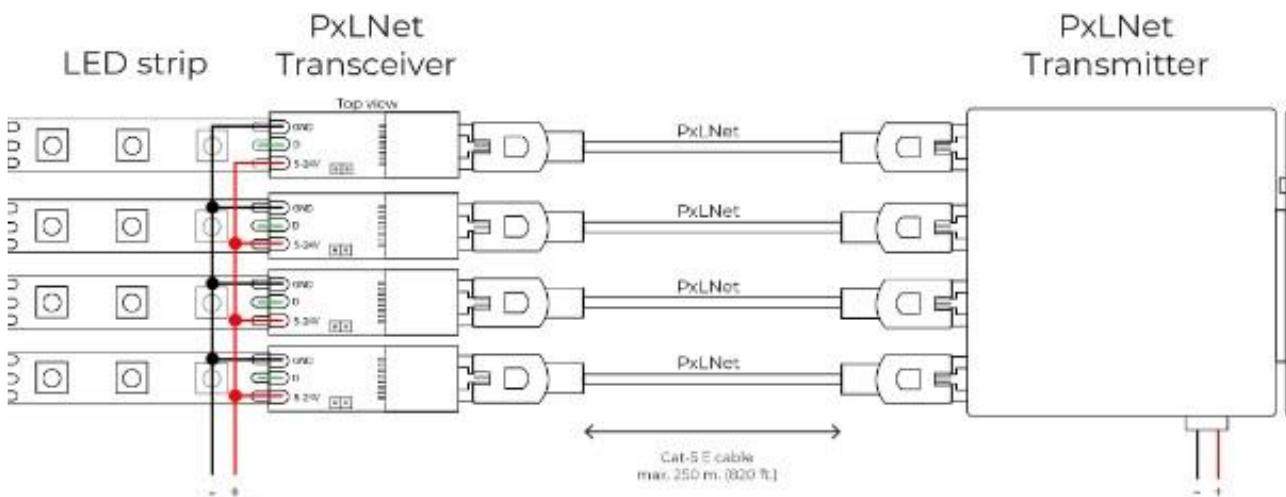
Following wiring schemes show various options to connect the PxLNet Transmitter.

Wiring scheme 1: Connect Transmitter to C4



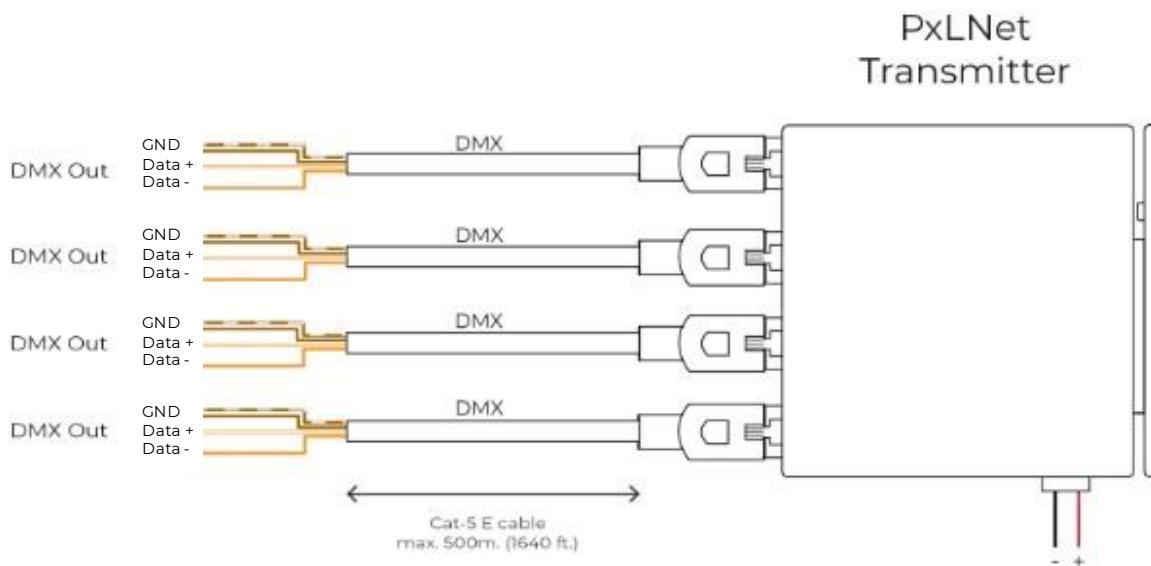
The PxLNet Transmitter connects directly to the DiGidot C4. In case of third-party SPI controllers, a PxLNet Transceiver Bus Adapter (sold separately) must be placed on the terminal connector.

Wiring scheme 2: Connecting to PxLNet Transceiver



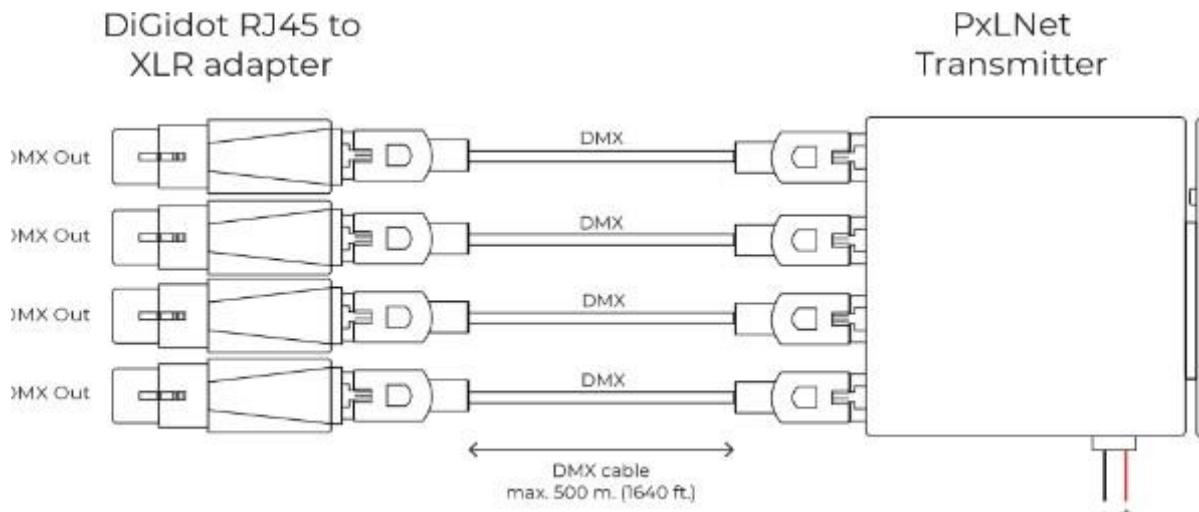
The PxLNet Transmitter can be connected to a PxLNet Transceiver to send signals across large distances. For more wiring options, please refer to the PxLNet Transceiver manual.

Wiring scheme 3: Connecting to DMX products



When connecting a DMX product where the wires need to be inserted in wire terminals or if they need to be soldered, the network cable must be stripped and wires must be connected as shown below. The indicated wire colors are according to the T-568B and ANSI ESTA E1-11 standard..

Wiring scheme 4: Connecting to DMX adapters



DiGidot offers RJ45 to XLR adapters to connect to any DMX controlled device with a 3-pin XLR connector. The RJ45 pinout is according to the ANSI ESTA E1-11 standard and can also be inserted directly in any DMX device with RJ45 input.

Operation

SPI

The DiGidot PxLNet Transmitter automatically converts any SPI output protocol to PxLNet and sends it up to 250 meters (820 ft) away to a PxLNet Transceiver, where it will be converted to the original protocol.

DMX

In order to transmit the DMX protocol directly from the PxLNet Transmitter, select 'DMX TTL' as output protocol in the DiGidot controller interface.

The RJ45 pinout is according to ANSI ESTA E1-11 standard, which means the RJ45 connector can be plugged in directly into DMX device inputs or use a DMX XLR adapter. For the exact pinout, check product description above.

Safety Instructions

Before installing DiGidot products it's important to take notice of following safety and installation instructions.

- > Before installation and use of this product, read this manual carefully.
- > Make sure that these instructions are handed over to the end-user and those responsible for installation, use and maintenance.
- > Local electrical and safety rules and guidelines always overrule this manual.
- > Installation should only be carried out by a professional and certified installer that is qualified to work on the electric installation.
- > Do not conduct any repairs of the device (there are no user serviceable parts inside). Any unapproved repairs and/or product modifications will void product warranty. DiGidot Technologies B.V. cannot be held liable for any consequences.
- > Repairs of this product may only be carried out by the manufacturer DiGidot Technologies B.V.
- > Repairs and maintenance on the installation may only be carried out by qualified technicians.
- > Always disconnect the mains power when working on a high voltage electric installation, not doing so may result in product damage and/or personal injuries.
- > Do not connect or modify this product other than described in this manual.
- > Never use a product that is damaged or does not work correctly or when the product starts to smoke, or when a crackling/sizzling noise is audible. If this is the case in any way, disconnect power and please contact your supplier immediately.
- > The only way to power off this product is to disconnect it from the power source.
- > The product is designed for indoor use (dry locations) only.

Packaging, Orderable Information

Content

- > 1x DiGidot PxLNet Transmitter
- > 1x Two pins screw terminal
- > Quick start Instruction card

NOTE

We put great care in our products and have a high quality control standard. Nonetheless we advise to double check for missing or damaged items.

In case of any missing or damaged items, please contact your supplier immediately.
Never use damaged products!

Order Information

Product Name	Article nr.	EAN Code
Combinations		
DiGidot PxLNet Transmitter	20342	8720168560117
Related Items		
DiGidot PxLNet Transceiver 2	203530x	
RJ - RJ45 bus	2035301	8720168562791
ST - Screw terminals	2035302	8720168562807
SP - Solder pads only	2035303	8720168562784
RJ+ST - RJ45 with Screw terminal	2035304	8720168565655

General Information

Online Resources

Before For technical specifications, latest documentation, manuals, product information and further support please visit www.digidot.eu.

Remarks

We have put great care in writing this manual. However, in case you encounter any discrepancies or unclarities, please contact us.

Warranty

This product is covered by a carry-in manufacturer's warranty of 5 years which covers any design faults, production faults and component failures.

Warranty voids if the product was installed or used incorrectly or not in accordance with this manual, and/or if the product was damaged due to external factors, modified or electrically overloaded. Warranty conditions of DiGidot Technologies B.V. apply. Warranty claims have to be issued by email: support@digidot.eu.

Disposal and recycling

This product should not be disposed with other household waste. When you decide to dispose this product and/or its battery, do so in accordance with local environmental and recycling regulations.

Feedback

Tell us all about your experience with DiGidot! The continuous development of the DiGidot control platform is only possible thanks to feedback from our users. If you have any suggestions, please contact us by email: info@digidot.eu.

Copyright

© 2024 DiGidot Technologies B.V. All rights reserved.

Errors and omissions excepted. The information in this document is subject to change at any time without prior notice. Visit our website www.digidot.eu for the most recent version of this document. It's not allowed to copy or reproduce, translate or publish the information within this document without prior written approval from DiGidot Technologies B.V.

Feedback

DiGidot Technologies B.V. cannot be held liable for improper handling, product installation, usage or storage. DiGidot Technologies B.V. explicitly rejects any form of liability claims in advance, whether it concerns direct or indirect disadvantages, damage, injuries, loss of income or other financial,

materialistic or personal consequences that are directly or indirectly caused by use of this product or it's owner or user. Any form of unintended or misuse of this information and/or DiGidot products indemnifies DiGidot Technologies B.V. from liability and warranty obligations



DiGidot PxLNet Transmitter

Address

Bromostraat 18-3
1067 TG Amsterdam
The Netherlands

Phone number

+31 (0) 20 820 1849

E-mail

info@digidot.eu

Website

www.digidot.eu



[/Digidot-Technologies-b.v.](https://www.linkedin.com/company/digidot-technologies-b.v.)



[@digidottechnologies](https://www.instagram.com/digidottechnologies)