Date

Project

Notes

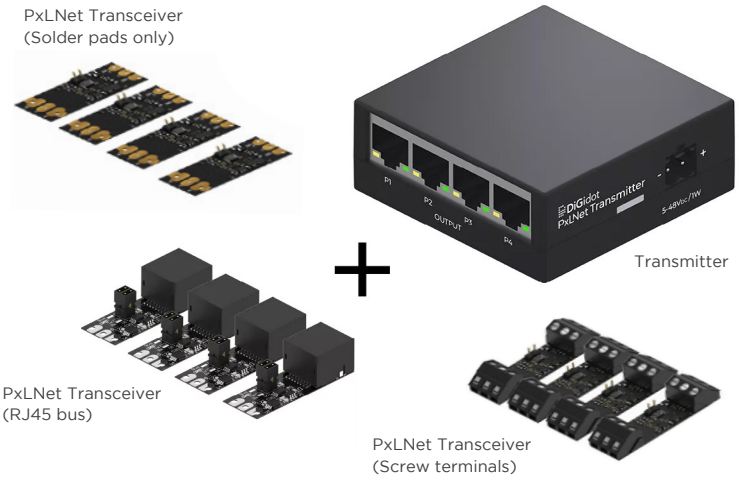
PXLNET TRANSCEIVER KIT

The PxLNet Transceiver Kit contains four (4) PxLNet Transceivers and one (1) PxLNet Transmitter. Together the transceivers and transmitter extend the range of C4 Extended and C4 Live controllers through the PxLNet protocol.

- Transmit and receive data
- SPI or DMX conversions
- Boost SPI signals up to 820 ft (250 m)
- Boost DMX signals up to 1640 ft (500 m)

Applications:

Commercial	Hospitality	Residential
Entertainment	Museums	Retail
Healthcare	Public Spaces	



CE RoHS

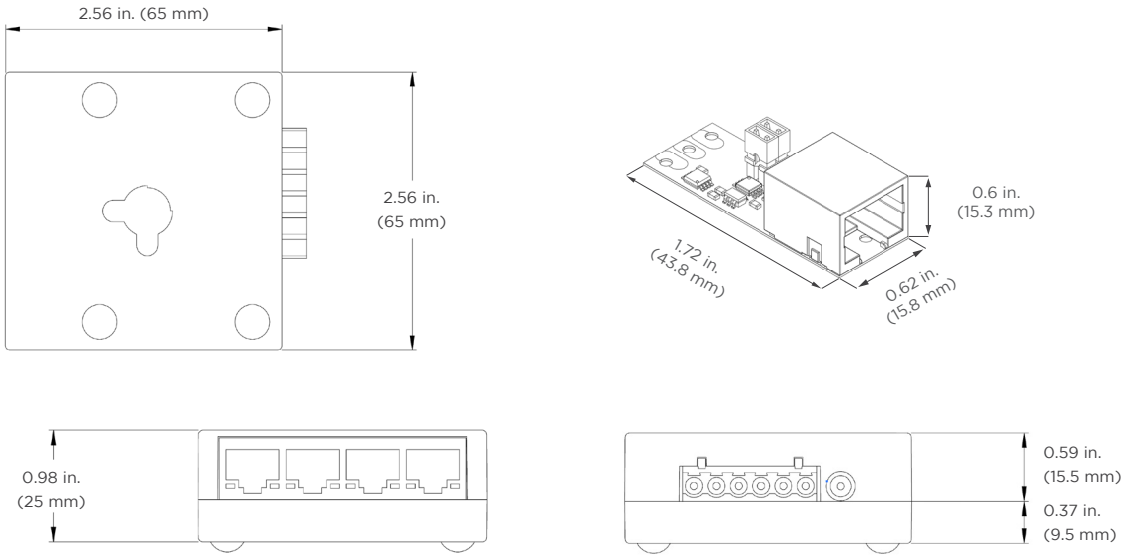
ORDERING GUIDE

Category
CTRLPIXELTRKITSP - PxLNet Transceiver Kit (Solder pads only)
CTRLPIXELTRKITST - PxLNet Transceiver Kit (Screw terminals)
CTRLPIXELTRKITRJ - PxLNet Transceiver Kit (RJ45 bus)

SPECIFICATIONS

Input Power	5-24V DC	
Power Consumption	1W	
IP Rating	IP00	
DC Input	Overvoltage protection (max. 60V DC)	
Control	DMX, SPI	
Number of Channels	8 universes	
Connection Options	RJ45 bus, screw terminals or solder pads	
Wire Sizes	**Solder pad wiring** 3-5 mm² | 20-24 AWG	**Terminal wiring power** Recommended: 3-5 mm² | 20-24 AWG / Max. 2.5 mm² | 14 AWG
Environment	Indoor use	
Operating Temperature	-4° - 113° F (-20° - 45° C)	
Compliences	CE, RoHS	
Standards	EN60950-1:2006 +A11:2009 + A1:2010 + A12:2011 + A2:2013, IEC60950-1 / EN60950-1, EN61006-6-3, EN55032	
Dimensions (L x W x H)	1.71 x 0.59 x 0.55 in. (43.5 x 15 x 14 mm)	
Weight	0.013 lb (6 g)	
Warranty	2 years	

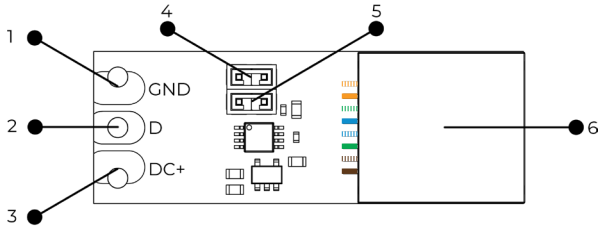
DIMENSIONS



DIAGRAMS

Topside

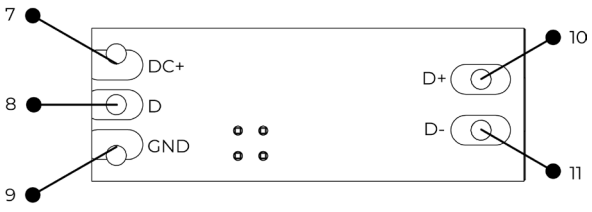
1. Power (GND/DC-)
2. BUS I/O (Data Out)
3. Power (DC+ / 5-24 V)
4. Jumper (Ground lift)
5. Jumper (Tx / Rx mode)
6. RJ45 (Data input)



Pin 1: Orange/White = (DMX) Data +
Pin 2: Orange = (DMX) Data -
Pin 3: --
Pin 4: --
Pin 5: --
Pin 6: --
Pin 7: Brown/White = (DMX) GND/DC -
Pin 8: Brown = (DMX) GND/DC

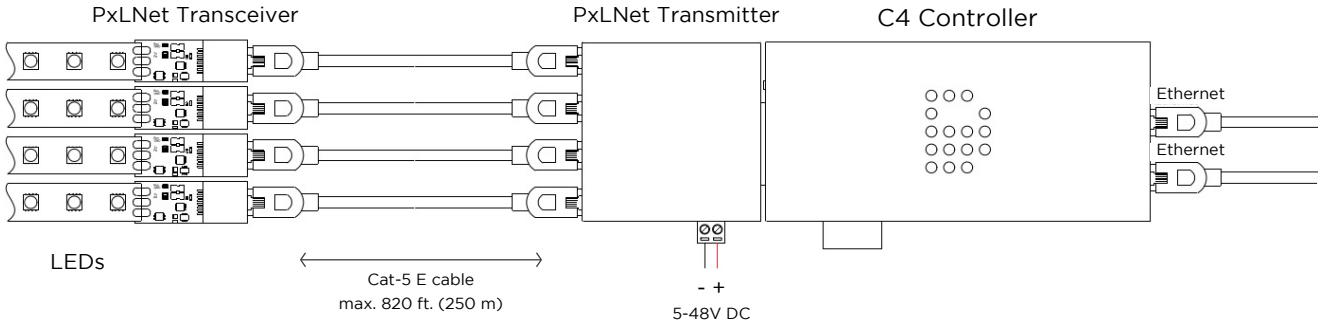
Bottomside

7. Power (DC+ / 5-24 V)
8. BUS I/O (Data Out)
9. Power (GND/DC-)
10. BUS I/O (Data + In)
11. BUS I/O (Data - In)



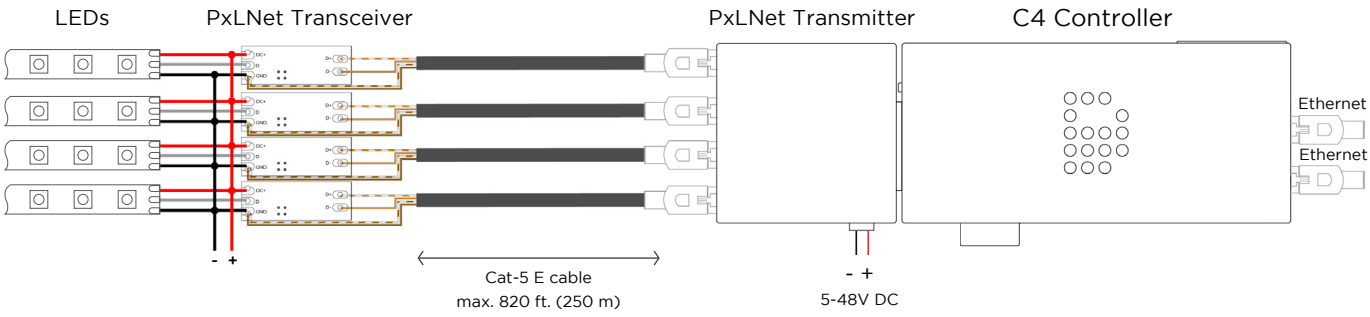
WIRING DIAGRAM 1

DiGidot C4 with PxLNet Transmitter connected by Cat-5 E network cables to PxLNet Transceivers that are soldered directly to pixel controlled LED strip.



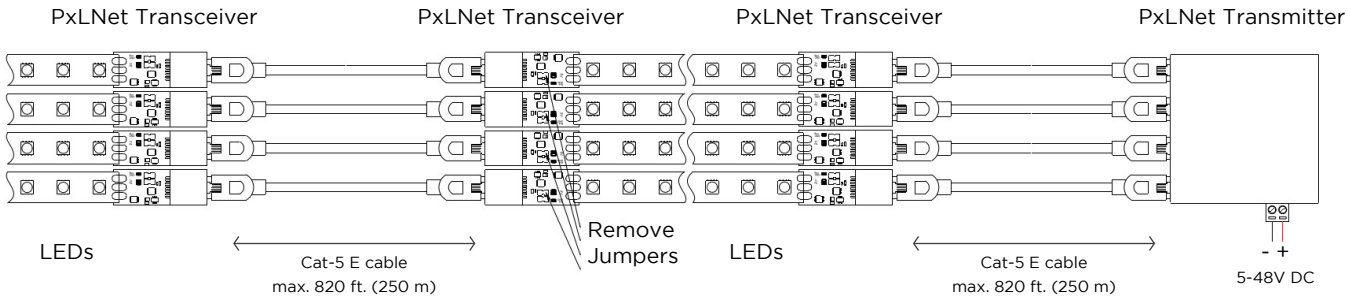
WIRING DIAGRAM 2

Transmitter connected by Cat-5 E network cables that are soldered to PxLNet Transceivers and output wires soldered that are connected to LED products.



WIRING DIAGRAM 3

DiGidot C4 with PxLNet Transmitter module connected by Cat-5 E network cables to PxLNet Transceivers that are soldered directly to pixel controlled LED strip. PxLNet Transceiver used in transmitting mode to send SPI between LED strips.



WIRING DIAGRAM 4

DiGidot C4 with Tx module connected by Cat-5 E network cables to PxLNet Transceivers that are soldered directly to pixel controlled LED strip.