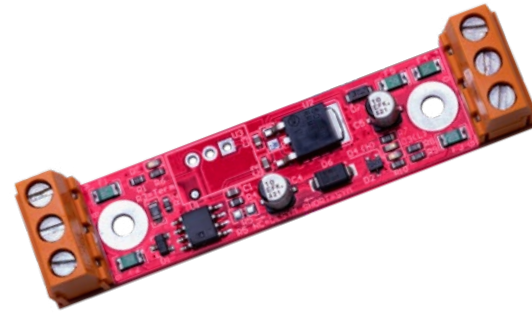


THE SYMMETRIZER

THE SYMMETRIZER allows you to extend the SPI data signal over long cables (+100 meters):

- From LED controller to SPI strips/pixels
- From SPI strips/pixels to SPI strips/pixels as the “booster”



Technical specification

Operating voltage	5V to 24V DC
Operating current	0.05A
Rated power	<1.2W
Channel count	1
Ports	TTL data + POWER port & DIFFERENTIAL port
TTL port pins	GND, DATA, +POWER
DIFFERENTIAL port pins	GND, B, A
Port connection type	Screw terminal blocks pitch 5mm, wire max 1.5mm ²
TTL Data type	TTL like level. L range 0-0.7V, H range 3.5-5V
DIFFERENTIAL Data type	differential minimum 0.2V, max voltage 0-5V to GND
Max frequency	1 MHz
TTL port protection	YES
DIFFERENTIAL port protection	YES
Output filter (slew limiting)	NO
Power indicator	YES
Data indicator	YES, High & Low indicator on TTL side
Dimension	70*15.2*15 mm, 2x mounting hole d=3mm
Operating air temperature	-30°C to 65°C
Storage air temperature	-30°C to 85°C
Relative humidity	5% to 80% non-condensing
Weight	10g

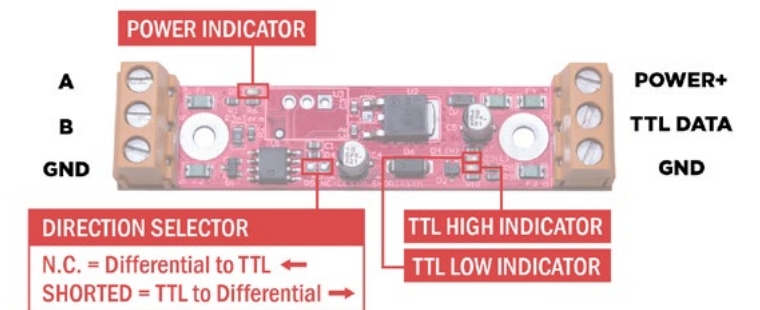
Product description

THE SYMMETRIZER is universal data signal converter from differential data to TTL data, OR by simple setting by soldering 2 pads it becomes TTL data to differential data converter. This allow you to use twisted pair to transfer TTL signal over long distances by converting them to differential and then back to TTL.

Applications

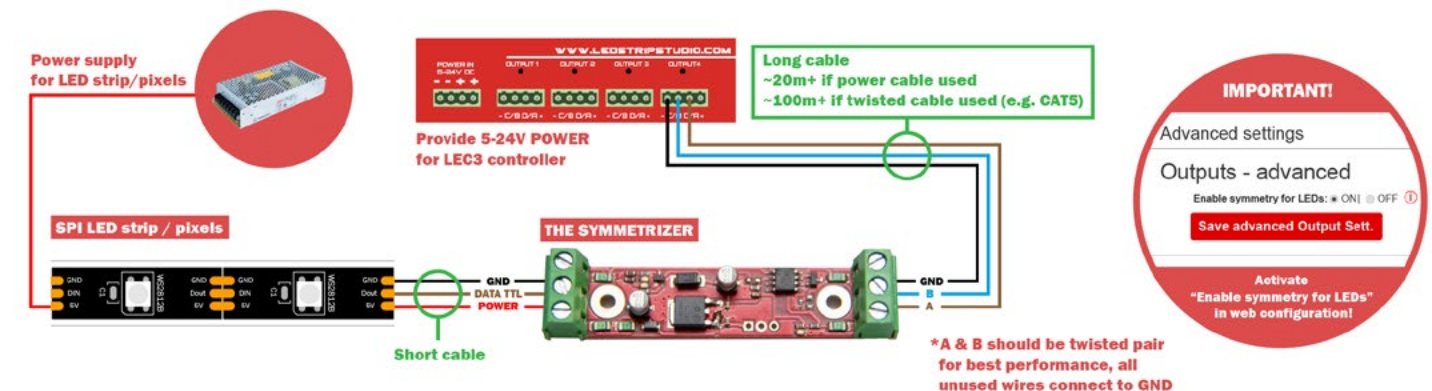
- General illumination
- Decoration illumination
- Events, lounges, clubs
- Scenography
- Theatre
- Light show
- Special effects
- Showcase

THE SYMMETRIZER



PCB Dimension: 70x15.2 mm
Hole-to-hole Dimension: 45.4 mm
Hole Diameter: 3 mm

Connection example with LEC3 (or SPI MATRIX) Controller



Connection example from pixel to pixel or controller to pixel

