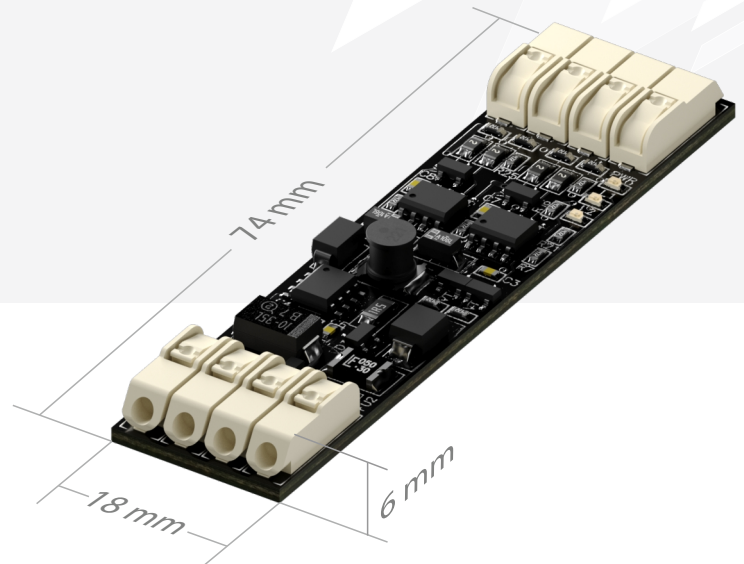


Light Stream Extender is designed to control light devices via SPI and by transmitting a signal from the Light Stream converter with a differential interference signal increases the distance from the controller to the light devices.



Features

Long signal transmission range

The possibility of receiving a differential signal from the Light Stream Converter in interference-resistant form over long distances up to 300 meters.

Wide range of SPI signals

Supports any IC with single-wire control, such as: UCS8903, GS8206, APA104, GS8208, WS2811, WS2812, WS2818, SK6812, UCS1903, UCS8903, TM1804 and others.

Wide temperature range

The components used are designed to operate at low temperatures down to -40°C

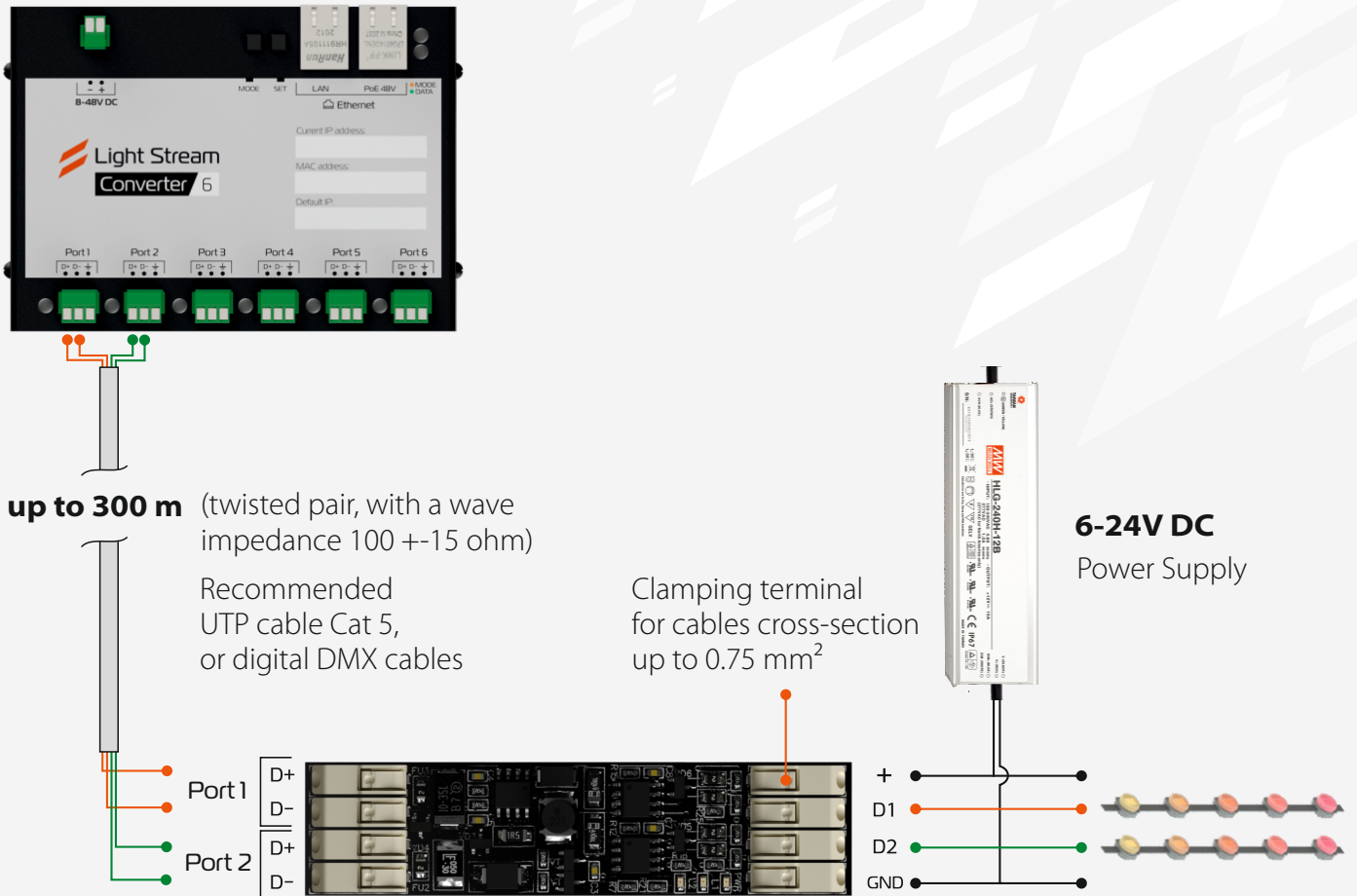
Plug & Play

Extender does not require presetting, the Light stream Converter is responsible for selecting the signal type.

LED indicators

The device is equipped with LED indicators that indicate the presence of power, signal on line 1 or 2.

Connection diagram



Technical Specifications

Ports	2 Inputs from Light Stream Converter 2 Output SPI for 1-wire (Data)
Number of channels per port	1 to 4 Universes DMX-512 (512-2048 channels)
Supply voltage	6-24V DC
Temperature range	from -40 to +50°C
IP rating	IP0 (IP65 when using additional materials)

Safety

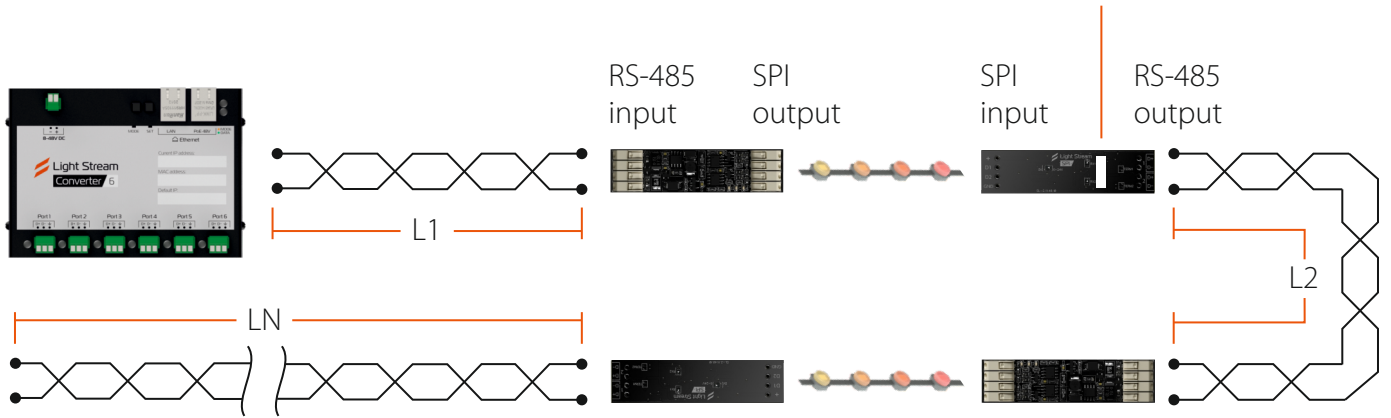
- Do not expose this unit to rain or moisture, it will void the warranty.
- Never connect this unit to a dimmer.
- Never connect 0V to electrical ground.

Certification



**Connection diagram
lighting devices
distant from each
other at a distance
of more than one and
a half meters**

With this connection scheme, it is necessary to install a jumper between RX1 and RX2 for the direction their work. When they are closed, the direction of the RS-485 signal is > SPI. When is not closed, the signal direction SPI > RS-485.



$L1=L2=LN \leq 300m$