SMART SHOW

Mini Extender Installation & Use

Introduction

Mini Extender is a simple wired transmitter and receive module pair that will enable you to extend serial data (<1mbps). This is especially useful when using WS2811/WS2812 (and similar NRZ-type variants) Pixel LEDs. The transmitter module will convert the data from single-ended to differential data to be sent down a standard ethernet cable, or twisted pair and ground. The receiver module converts the data back from differential to single-ended data. This gives the advantage of being able to use very long cable runs (<200m) between transmitter and receiver pairs. Mini Extender can be powered from voltages of 5v or 7-12v, both ends need to be powered for the system to work.

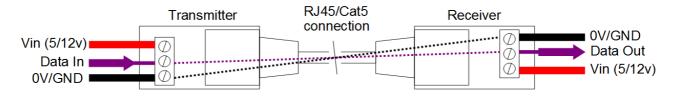
Specifications

Transmitter screw connections: 5V-12V input. Outbound data (<1mbps). Transmitter RJ45 connection: Outbound data+/- and ground connections Receiver screw connections: 5V-12V input. Inbound data (<1mbps) Receiver (Red) RJ45 connection: Inbound data+/- and ground connections

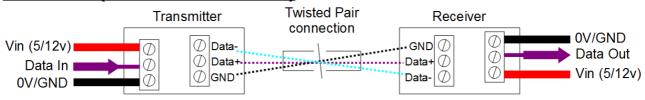
Parts Supplied

1 x Mini Extender transmitter, 1 x Mini Extender Receiver

Connections (RJ45 Version)



Connections (Twisted Pair Connection)



Voltage Selection

If powering either device from 5V then the 5V jumper link MUST be placed across the two headers pins marked as "5V Link". If powering from 7-12V then this link can be omitted. Both ends must be considered, and they can be run from different voltages if required.

Indicators

On the RJ45 version, there are two LEDs on each RJ45 connector Power is shown on the Yellow LED Data is shown on the Green LED

Dimensions

Both Transmitter and Receiver - Length : 41mm - Width : 18mm - Height : 18mm

Technical Support

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