Introduction

WSExtend is a simple wired transmitter and receive module pair that will enable you to extend the Data wire of your Pixel LEDs. The transmitter module will isolate the power supply ground, and convert the data from single-ended to differential data. This gives the advantage of being able to use very long 'intermediate' cables between transmitter and receiver pairs. The WSExtend uses an off-the-shelf RJ12 to RJ12 connection, similar to well known ADSL cables

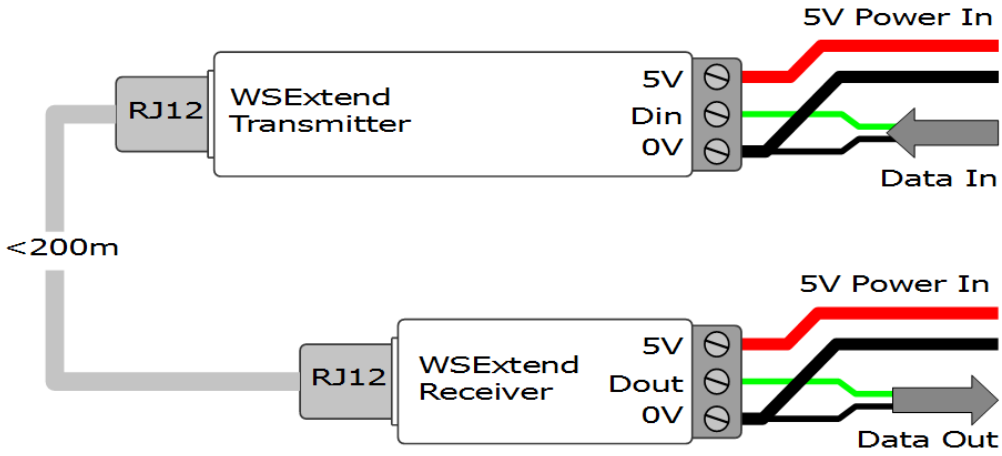
Specifications

Transmitter input (Screw connection) : 5V input only, any data up to a bitrate of 1Mbps
Transmitter output (RJ12) : Differential and isolated, data +, data – and ground connections
Receiver input (RJ12) : Differential
Receiver output (Screw connection) : Data at up to 1Mbps, receiver must be power by 5V at the screw terminals

Parts Supplied

WSExtend transmitter + 3 pin WS Female WSExtend Receiver + 3 pin WS Male

Connections



Dimensions

Transmitter Length : 80mm, Width : 18mm, Height : 18mm
Receiver Length : 40mm, Width : 18mm, Height : 18mm

TroubleShooting Guide

I can't see any output from the receiver:
Check data in and out connections
Ensure that both the receiver has 5V connected to 5V screw connection, and 0V connected to 0V
Is the RJ12 cable broken ? Test with an alternative

The data output signal is intermittent:
Have you extended over 200m ?
Is the RJ12 cable passing over high voltage cables that could impose noise ?

Technical Support

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