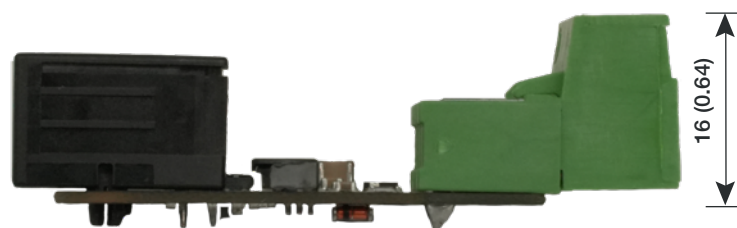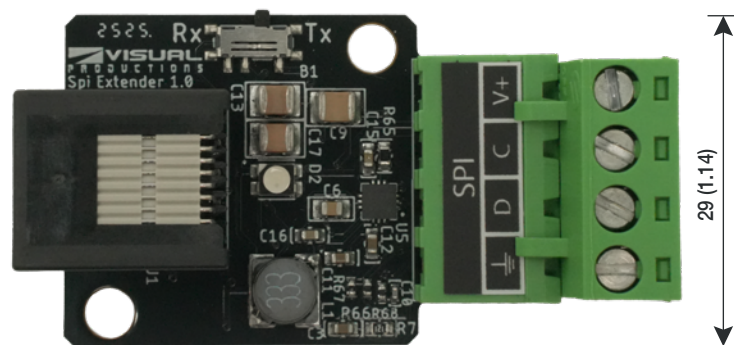# SpiExtender

Some SPI installations require significant distance between the controller and the LEDs. The SpiExtender enables such setups by converting the standard SPI signal into a robust, differential signal suitable for transmission over CAT5 (or higher) cabling. This allows reliable cable lengths of up to 250 meters (820 feet).

The SpiExtender is fully compatible with the Visual Productions SpiNode and 3RD party SPI controllers. Each SPI signal path requires two SpiExtenders: one configured as a transmitter at the controller side, and one as a receiver at the LED side, where the signal is converted back to standard SPI.

A built-in switch allows the user to toggle the SpiExtender's operating mode between transmitter and receiver.

mm (inch) 46 (1.81) 29 (1.14) 16 (0.64)

LED Function	Transmit	Receive
Receiving data	🔵	🔵
No data	🔴	🟡

SPECIFICATIONS

- compatible with SPI (with or without clock)
- up to 250 meter (820 feet)
- uses CAT5 (or higher) cable
- 5-24V DC 100mA
- Operating temperature -20°C to +50°C (-4°F to 122°F)
- Compliance: CE, ROHS, UKCA