



SPI Buffer Saver

SPX-14973

The SPI Buffer Saver is a hardware solution to an interesting problem. In short the standard Arduino SPI library includes a method to transfer out an array (or buffer) but the contents are replaced by whatever data is on the MOSI line at that time. This is problematic when using the SPI hardware to control things like displays or addressable LED strips because it requires you to re-set the data in the array each time. You can read more about the inspiration for this board [here](#).

The BufferSaver is an extremely compact board designed to sit in series with the power and data lines going to an LED strip or any other one-way SPI interface. A tri-state buffer is used to connect the MOSI and MISO lines when activated so that you can circumvent the Arduino library implementation of `SPI.transfer()` that would otherwise overwrite your data.

Eliminating the step of re-writing LED or pixel data always increases efficiency and can as much as double your frame rate or maximum number of pixels in ideal situations!

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- 10 MHz maximum bitrate
- 5.5V maximum supply voltage
- Small form factor
 - 12.6 x 18.2 x 3.0 mm standard
 - 12.6 x 10.3 x 3.0 mm compact (cut off on dashed line)

