

Electronics LED Strings

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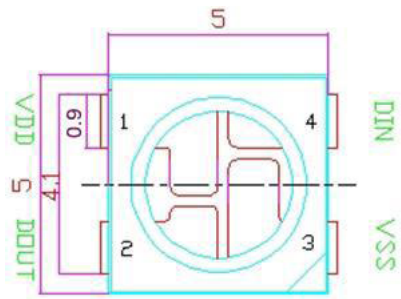
They are composed of multiple LEDs, often RGB, with *individual* controls.

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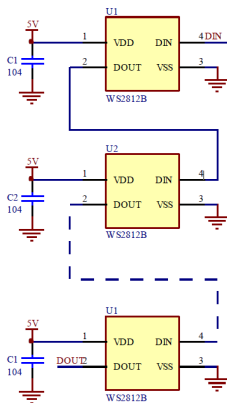
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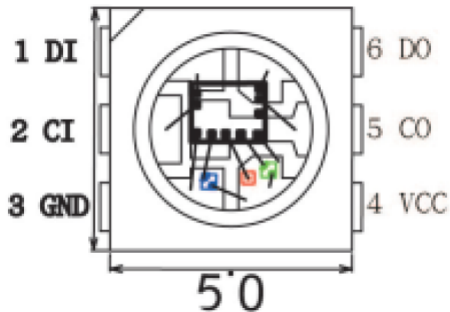
All of the LEDs in a string are connected in sequence, so that instructions *cascade* through.



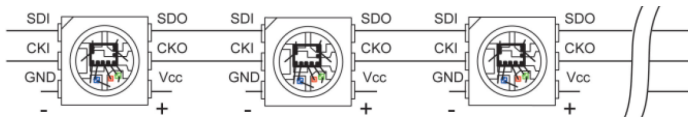
WSB2812 LED



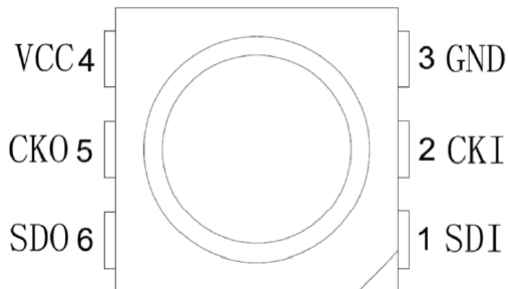
WSB2812 string



APA102 LED



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SK9822 LED

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Single wire protocol

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0-0.4 μ S HIGH; 0.85 μ S LOW

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RESET- $\geq 50\mu\text{S}$ LOW between data frames

APA102 Strings

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Data Frame is 111 followed by 5 bit intensity followed by 24 bit colour; 8 bits for each of BGR, MSB first

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One Data Frame per LED

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One Data Frame per LED

Data between Start Frame (0x00) and End Frame (0xFF).

SK9822 Strings

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