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WS2813 VS WS2812B

Now WS2813 LED come out ,you can think it is ws2812b updated version , WS2813 LED can use same controller as WS2812B LED , WS2813 led have 2 data signal ,so when you use those led chip to make led strip , one led broken will not affect another led unless two consecutive led is broken , so WS2813 led make digital led project is more reliable than before .The capatior and die is packaged in 5050 RGB LED chip , then it will not need another capatior to make led strip again.

WS2812B only one data signal when one led broken may affect another led working . Only die is pacakge in 5050 RGB LED Chip

In summary Compare WS2812B LED chip, WS2813 LED have the following advantage

- **Any pixel's failure won't affect signal transfer and its total emitting effect. Unless two consecutive adjacent LED is Broken**
- **Integrated capatior and resistance enable the circuit of pcb is more simple ,easy to make .**
- **250us or more of reset time, it won't cause wrong reset while interruption, it work on the lower frequency and inexpensive MCU.**
- **Refresh Frequency updates reach to 2KHz, Low Fram Frequency and no Flicker appear in HD Video Camera, improving excellent display effect.**

This is the video of WS2813 LED STRIP ,you can see some led is broken , another led still working

<https://www.youtube.com/watch?v=fCEpfPtRHTU&feature=youtu.be>