

| Strip Type | Voltage | Compatible Libraries | Price (As Tested) | Pros | Cons |
|--------------------|---------|-----------------------------|-------------------|--|--|
| WS2811 | 12 | FastLED, Neopixel, WS2812FX | \$15.83 | <ul style="list-style-type: none"> • Inexpensive • Compatible with most libraries • Resistant to voltage drop | <ul style="list-style-type: none"> • Control groups of 3 LEDs instead of individual LEDs • 12 volts means separate power will be required for your microcontroller |
| WS2812B | 5 | FastLED, Neopixel, WS2812FX | \$17.08 | <ul style="list-style-type: none"> • Inexpensive • Compatible with most libraries • 5 volts means your LEDs and microcontroller can share power | <ul style="list-style-type: none"> • Power injection required every 5m to keep color accuracy |
| WS2812B Eco | 5 | FastLED, Neopixel, WS2812FX | \$13.15 | <ul style="list-style-type: none"> • Least expensive • Lowest idle power consumption • Compatible with most libraries • 5 volts means your LEDs and microcontroller can share power | <ul style="list-style-type: none"> • Power injection required every 5m to keep color accuracy |
| WS2813 | 5 | FastLED, Neopixel, WS2812FX | \$22.98 | <ul style="list-style-type: none"> • Compatible with most libraries • 5 volts means your LEDs and microcontroller can share power • Backup data channel to prevent strip outage | <ul style="list-style-type: none"> • Expensive • Power injection required every 2.5m to keep color accuracy |
| WS2815 | 12 | FastLED, Neopixel, WS2812FX | \$23.86 | <ul style="list-style-type: none"> • Compatible with most libraries • Backup data channel to prevent strip outage • Resistant to voltage drop | <ul style="list-style-type: none"> • Expensive • 12 volts means separate power will be required for your microcontroller |
| SK9822 | 5 | FastLED | \$28.45 | <ul style="list-style-type: none"> • Clock pin allows for total control of frames per second and accurate animations. • 5 volts means your LEDs and microcontroller can share power | <ul style="list-style-type: none"> • Expensive • Power injection required every 2.5m to keep color accuracy • Library must include a clock pin (FastLED) |
| SK6812 | 5 | Neopixel | \$26 | <ul style="list-style-type: none"> • Dedicated “white” LED channel allows for the most accurate white colors • Lowest power consumption when producing white light • 5 volts means your LEDs can microcontroller can share power | <ul style="list-style-type: none"> • Expensive • Power injection required every 2.5m to keep color accuracy (only when using RGB for white). • Library must include a white channel (Neopixel) |