TERALUX

SMD 5050 Led Strip

Teralux **Addressable SMD 5050 6000K LED Strip** User Manual

Single Color Addressable LED Strip

CE RoHS FC

Teralux Office

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Teralux Addressable LED Strip Series

This addressable flexible LED strip uses high-quality SMD 5050 LEDs to provide bright, clean white lighting with smooth and stable performance. With a high LED density and addressable pixels, it supports both strong illumination and dynamic lighting effects. Designed for DC 12V operation, it is energy efficient and easy to install thanks to its slim, flexible PCB. Ideal for indoor use, it is well suited for architectural accents, retail displays, signage, and decorative lighting projects.

Features

High-density SMD 5050 LEDs for bright and even light output.

Addressable pixel control for dynamic lighting effects.

Flexible and slim PCB for easy bending and clean installation.

Stable 12V operation for reliable performance.

Energy-efficient design suitable for long operating hours.

Ideal for indoor architectural, retail, and decorative applications.

Device Function

Suitable for Residence

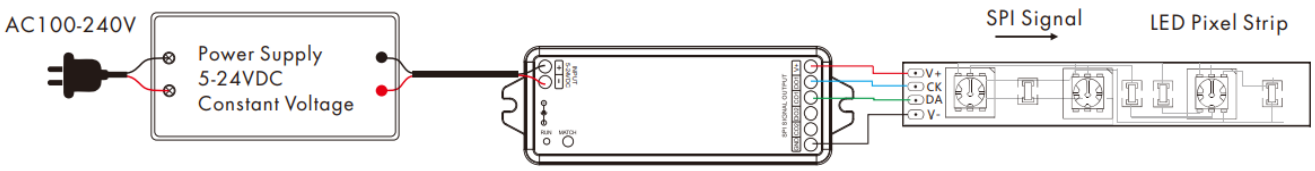
Suitable for Decoration

Suitable for Commercial

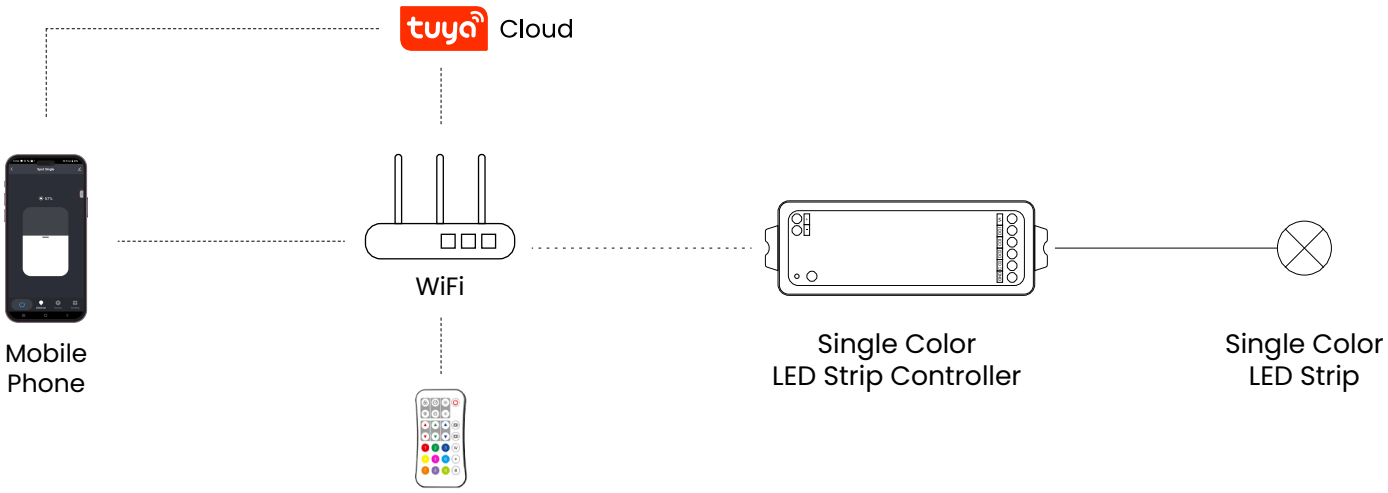
Technical Parameter

Category	Specification
Led Type	SMD 5050
Brand	Teralux
Pixels	20 pixels per meter
LED Density	60 LEDs/m
Power Consumption	14W/m
Working Voltage	DC 12V
PCB Size	10mm
Light Color	Nature White 6.000K
Protection Rating	IP20 (indoor use only)
LED Source	High-quality SMD 5050
Certification	CE RoHS FC

Wiring Diagram



System Diagram



Do & Don'ts

Do

Connect to the correct input direction.
Always follow the arrow on the strip and connect the controller to the input side. Testing the first LED before final installation helps confirm correct data flow.

Set correct controller settings.
Select WS2811 as the IC type, set the correct pixel count, and choose the proper RGB color order. Incorrect settings may cause wrong colors or unstable effects.

Keep data cables short and clean.
Use the shortest possible data cable between the controller and strip. For longer distances, use shielded or twisted cables to reduce signal interference.

Don't

Do not connect the strip in reverse.
Connecting to the output end will block the data signal and prevent operation.

Do not power long strips from one end only.
This can cause dimming, flicker, and incorrect colors at the far end.

Do not use long data cables without amplification.
Excessive cable length can weaken the signal and cause random colors or flickering.

Do not sharply bend the strip.
Tight bends can damage internal traces and break the data line.

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