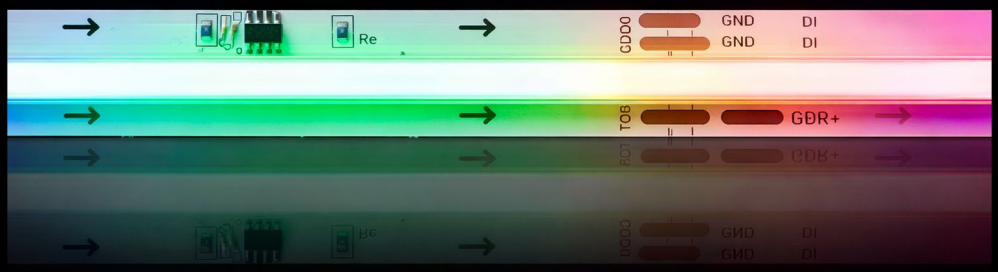
TERALUX

ARGB WS2811 COB

Teralux **ARGB WS 2811 LED Strip** User Manual

CE RoHS FC



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Teralux Addressable LED Strip Series

The Teralux LED Strip ARGB COB WS2811 with 360 chips per meter is an addressable RGB LED strip designed for smooth and even light output. Using COB technology, the LEDs are packed closely together to reduce visible dotting and create a more continuous lighting line. It operates on 12V DC with a power consumption of 9.6W per meter, making it suitable for a wide range of indoor lighting and decorative applications.

With WS2811 digital control, the strip supports addressable RGB effects such as color changes, gradients, and basic animation patterns when used with a compatible controller. The 10mm PCB and IP33 rating make it appropriate for dry, indoor environments like cove lighting, shelving, displays, workspaces, and DIY lighting projects. Supplied in a 5-meter length, this LED strip is a practical option for users who need consistent light appearance with basic addressable control.

Features

COB technology with 360 chips per meter for smoother, more continuous light output.

WS2811 addressable IC for individual RGB control and dynamic lighting effects.

Reduced visible LED dots compared to standard SMD LED strips.

10mm PCB width for compatibility with common LED strip channels and profiles.

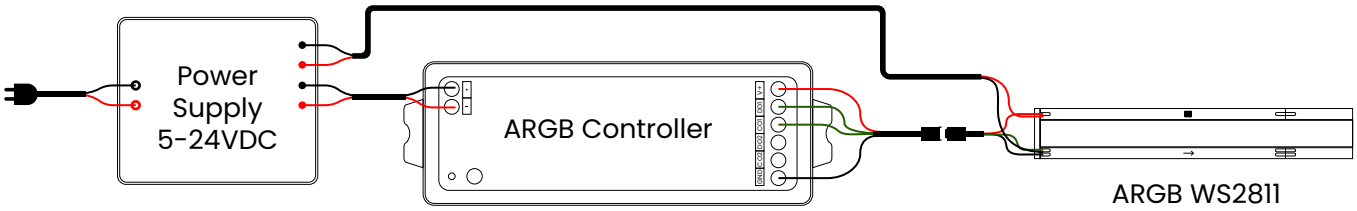
IP33 rating for indoor use in dry environments.

Device Function

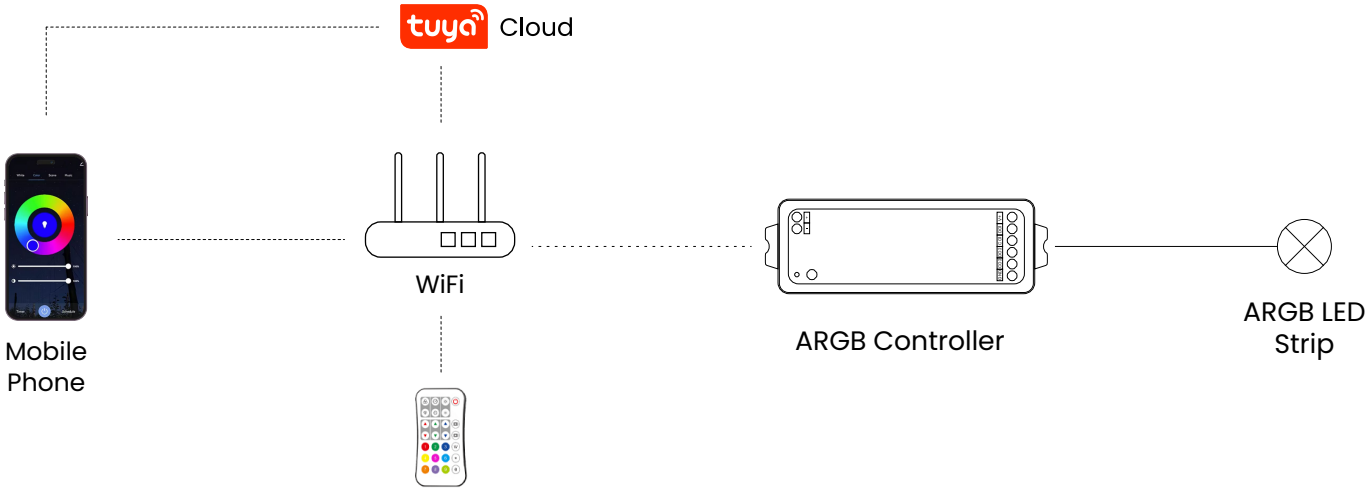
Technical Parameter

Category	Specification
Voltage	DC24V
Brand	Teralux
Model Number	FSCOB-WS2811-360-12V
Color	White PCB, RGB Light
LED Density	360 Chips/
IC Quantity	20 ICs/meter (1 WS2811 IC drives 36 LEDs)
Strip Width	12mm
Cut Mark Interval	1.96 inches (50mm)
Wattage	70 Watts (Maximum Compatible)
Special Feature	Addressable FCOB LED, Chasing LED Strip, Uniform Rainbow Color, WS2811 IC Chip
Usage	Indoor use only
Average Life	65,000+ Hours
Material	Plastic, Double-layer Copper PCB
Certification	CE RoHS FC

Wiring Diagram

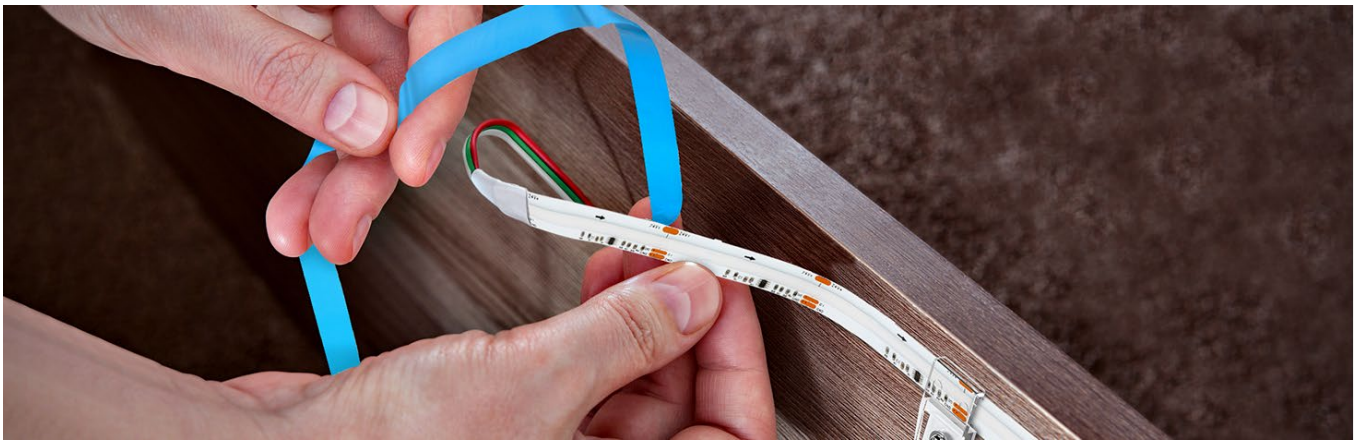


System Diagram



Connecting the LED Strip

The LED strip uses 3-pin connectors for data and power. Ensure correct polarity and data direction when connecting to the controller and power supply. Strips can be connected using single-end, dual-end, series, or parallel connections depending on strip length and power needs. Dual-end power helps reduce voltage drop, while parallel connections are suitable for larger installations and may require a signal amplifier.



Controller Options

S Series F3 RGB

S Series SPI

S Series SPI Mini

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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