



Shenzhen Elisa LED Co., Ltd

ADD: B807, Shiyan Micro Enterprise Science and Technology
Innovation Center, Guanghui Road, Longteng Community, Shiyan
Street, Baoan District, Shenzhen, 518108

Email: xuanan@elisaled.com Mob: 86 158 2078 1375

PRODUCT SPECIFICATION

SK9822 5050 RGB Individual Addressable LED Strips

Model No.:

XXA-STRIP-30D5050RGB-SK9822

XXA-STRIP-60D5050RGB-SK9822

XXA-STRIP-144D5050RGB-SK9822





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PRODUCT OVERVIEW

The SK9822 series of RGB pixel LED strips utilizes the SK9822 protocol IC, which is integrated directly into the SMD5050 RGB LED package (an RGBW version is also available), ensuring highly stable performance. Each LED is individually addressable, enabling exceptional color transitions and dynamic animation effects. This series is ideally suited for decorative lighting in commercial and entertainment venues. The products are available with various ingress protection ratings (IP20 / IP65 / IP67 / IP68) to accommodate diverse installation environments. When paired with a comprehensive control system—including a controller and power supply—users can achieve flexible control over colors, patterns, brightness, transition speeds, and the direction of movement.

MODEL COMPARISON

Parameter	30 LEDs/m Version	60 LEDs/m Version	144 LEDs/m Version
Part No.	XXA-30D5050RGB-SK9822	XXA-60D5050RGB-SK9822	XXA-144D5050RGB-SK9822
LEDs/Meter	30 LEDs/m	60 LEDs/m	144 LEDs/m
Pixel Qty/Meter	30 pixels/m	60 pixels/m	144 pixels/m
Power Consumption	9W/m	18W/m	43.2W/m
Operating Voltage	DC5V	DC5V	DC5V
Pixel Pitch	33.33 mm	16.66 mm	6.94 mm
PCB Width	10 mm	10 mm	12 mm
Light Source	SMD 5050 RGB LED	SMD 5050 RGB LED	SMD 5050 RGB LED
IC Chip	SK9822	SK9822	SK9822
Beam Angle	120°	120°	120°
Waterproof Grade	IP20 / IP65 / IP67 / IP68	IP20 / IP65 / IP67 / IP68	IP20 / IP65 / IP67 / IP68
PCB Color	Black / White	Black / White	Black / White

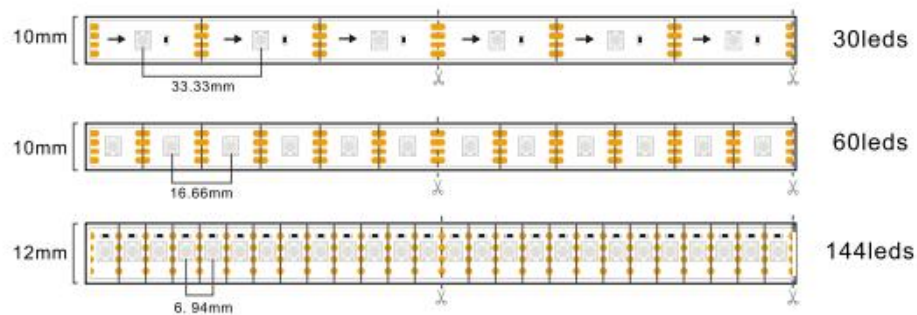


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DIMENSIONS



STANDARD CONNECTOR OPTIONS



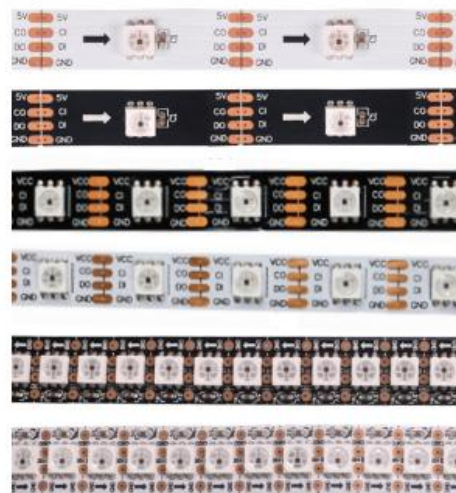
waterproof connector



non-waterproof connector



non-waterproof connector



Product Photograph



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FEATURES

1. Individually Addressable

Each LED contains the SK9822 IC, allowing precise control for exquisite color changing and animation effects.

2. High-Density Options

Available in 30, 60, and 144 LEDs per meter to meet various brightness and resolution requirements. Custom densities are available.

3. Flexible Waterproof Ratings

IP20 (non-waterproof), IP65 (epoxy coating or silicon tube), IP66 (neon tube), and IP67/IP68 (silicone tube with full glue injection) options are available for different site locations.

4. Superior PCB Construction

Built with 1oz or 2oz copper layers, protective layers, and 3M 200MP/300MP adhesive tape for reliable performance and easy installation.

5. Dynamic Lighting Effects

Capable of multi-directional light effects, variable speed settings, and variable pixel lengths when paired with a compatible LED controller.

6. Safe & Stable

Operates on low-voltage DC5V. The SK9822 model is known for its stability and protocol reliability.

APPLICATIONS

Commercial and entertainment lighting decoration

Architectural contours and accent lighting

Indoor/outdoor ambient lighting (depending on IP rating)

Dynamic color-changing and chasing effects

KTV, bars, and stage lighting



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IMPORTANT INSTALLATION NOTES

Consideration	Recommendation
Power Injection	Each maximum run requires a dedicated power feed from the driver. Do not exceed the recommended maximum run length.
Cutting	Cut the LED strip and silicone sleeve on the cutting point indicated on the PCB to install connectors.
Direction	The LED strip is directional. Ensure data flows from one direction only (follow the arrows printed on the PCB).
Sealing	Apply silicone sealant liberally inside the silicone sleeve for outdoor (IP65+) installations to ensure complete sealing.
Safety	Installation must comply with local electrical codes. Do not install in excessively hot environments or handle with excessive bending/pressure.

CERTIFICATIONS & COMPLIANCE

Parameter	Specification
Warranty	2-Year Limited Warranty
Operating Temperature	-20°C ~ +60°C
Storage Temperature	-30°C ~ +80°C
Certifications	CE, RoHS