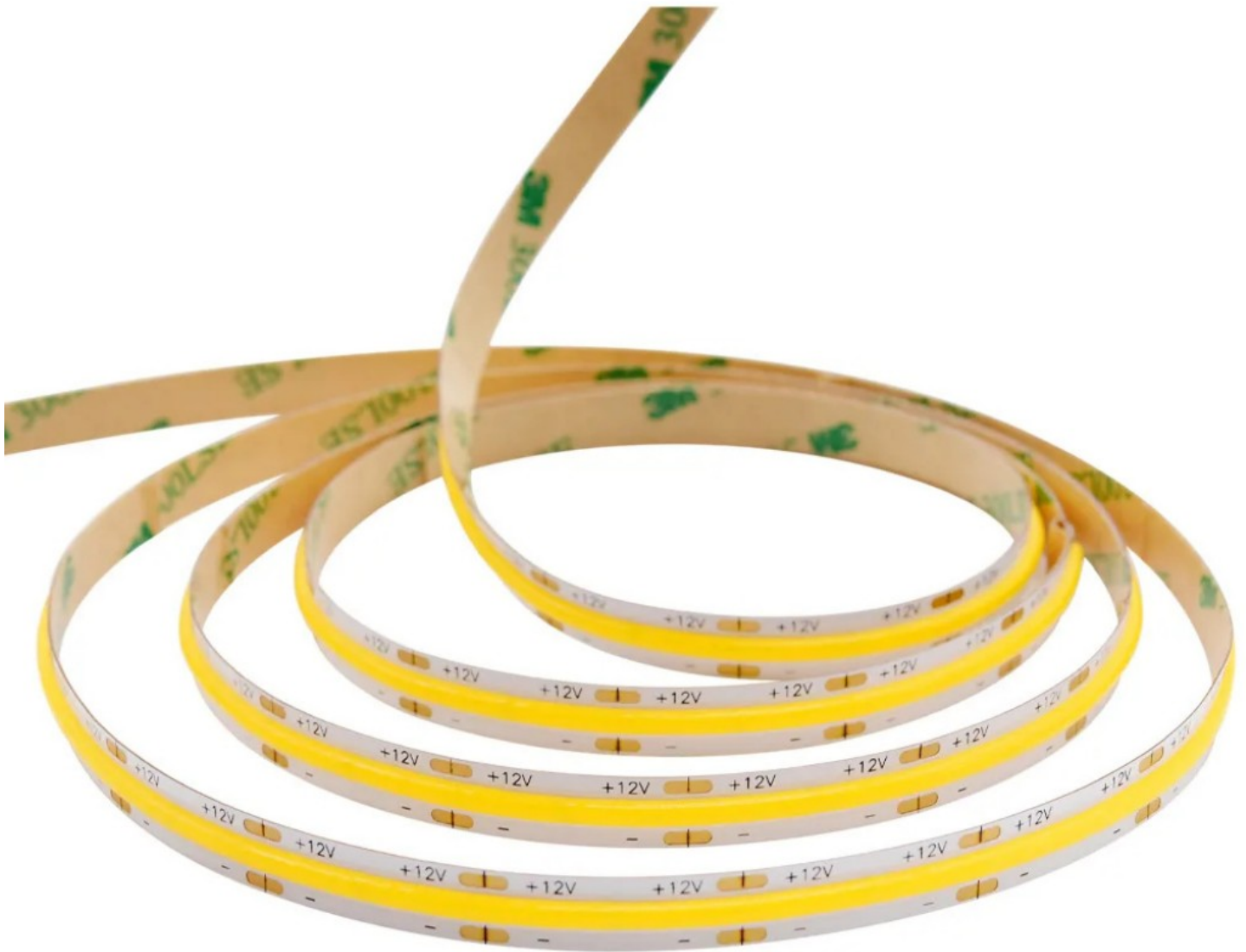


SignliteLED As a Global COB LED Strip Light Supplier: Mono, Tunable White, RGB, And Addressable Series



Shenzhen, Guangdong Aug 26, 2026 (Issuewire.com) - **Direct Answer:** SignliteLED answers the need for a versatile [COB LED Strip Light Supplier](#) by offering Mono, Tunable White, RGB, and Addressable COB series that support differentiated selection for commercial lighting, ambient decoration, and dynamic linear projects. Because the Chip-on-Board (COB) architecture provides a continuous, dot-free linear output, buyers can rely on a consistent visual foundation while selecting

different color architectures and control methods. By organizing these solutions into specific product families, procurement teams can match stable white light, adjustable color temperatures, full-color mixing, and pixel-level dynamic effects to their exact project requirements. The resulting product portfolio allows lighting engineers to specify the correct control mechanism without sacrificing the uniform visual appearance that defines professional linear illumination.

COB Architecture Separates Four Distinct Project Requirements

A reliable procurement process requires separating COB products by their color and control capabilities rather than treating all COB strips as a single interchangeable category. [SignliteLED](#) structures its COB portfolio to address four distinct project requirements: fixed white light, adjustable white light, RGB color changing, and programmable dynamic effects. This organizational approach prevents buyers from applying the wrong control assumptions to their project designs, streamlining the specification process for complex architectural installations.

The four COB series can be screened quickly by project objective:

- Mono COB - fixed white linear illumination for standard lighting tasks.
- Tunable White COB - adjustable white light where correlated color temperature needs to change.
- RGB COB - overall multicolor output for decorative and ambient effects.
- Addressable COB - programmable grouped or pixel-style effects for dynamic installations.

While all four series share the core benefit of COB technology mounting high-density chips directly onto the PCB to create continuous, dot-free linear light they utilize different controllers, channel counts, and commissioning methods. Therefore, buyers should evaluate their project's intended visual effect and control depth first, and then select the corresponding COB architecture to ensure that the chosen lighting product will seamlessly integrate into the final application.

Mono COB Establishes the Baseline for Stable White Linear Lighting

For projects centered on stable white light, compact linear structures, and versatile electrical specifications, the Mono COB series serves as the standard solution. This makes it an ideal fit for cabinet lighting, cove lighting, retail displays, and foundational architectural linear lighting where consistent illumination is the primary goal. Unlike color-changing systems, the focus here is entirely on delivering reliable brightness and accurate color rendering for long-term commercial use.

Mono COB options span multiple chip densities and PCB widths, including 320, 384, 480, and 528 chips per meter across 8mm and 10mm configurations. This range allows lighting engineers to refine the fixture structure, match specific aluminum profile dimensions, and target appropriate light densities within the same product direction. The resulting dimensional flexibility helps designers source continuous white light for intricate custom fixtures or narrow furniture grooves.

With both DC12V and DC24V power input options, short-distance installations and longer commercial linear runs can utilize the optimal electrical configuration to minimize voltage drop. Because fixed white light projects do not require the complexity of multi-channel color control, procurement teams can focus their attention on matching the specific dimensions, chip densities, power ratings, and installation environments.

Tunable White COB Adds Adjustable CCT Without Giving Up a Continuous Light Line

The Tunable White COB series combines the ability to adjust color temperatures from warm white to cold white with a continuous linear output. This makes it particularly suitable for hotels, offices, retail displays, and smart lighting scenarios where the environment requires a shift between task lighting and ambient lighting within the same fixture. It eliminates the need to install parallel strips of different color temperatures, reducing material costs and simplifying the physical installation footprint.

A 10mm Tunable White COB configuration with 608 chips per meter supports a wide adjustment range from 2700K to 6500K. By working alongside compatible controllers to adjust both color temperature and brightness simultaneously, projects can alter the white light performance based on the time of day, the specific spatial function, or the overall design context. This capability is useful for human-centric lighting designs that seek to coordinate indoor lighting with changing activity or ambience requirements.

Operating on a 12V or 24VDC power supply, this series uses a 10mm structure to support the dual-white adjustment logic. It successfully retains the hallmark COB visual characteristics, avoiding noticeable hotspots while delivering a wide beam angle. This configuration is highly effective for shallow profiles and installations where the light source is in close visual proximity to the user, ensuring that the color blending remains perfectly smooth even at close viewing distances.

RGB COB Prioritizes Smooth Color Mixing for Decorative Linear Effects

For projects that require continuous colorful linear effects but do not demand pixel-by-pixel programming, the RGB COB series utilizes high-density RGB chips and COB packaging to eliminate the discrete, dotted appearance common in traditional colored lighting. This creates a much more refined visual experience for high-end hospitality venues, entertainment spaces, and architectural accents where individual LED diodes would detract from the design intent.

RGB COB options include 10mm PCB configurations at 576, 810, and 840 chips per meter. This allows bars, stage outlines, hotel accents, and architectural lines to select different light densities while remaining within a unified RGB architecture. Higher-density options support smooth color mixing across the illuminated surface, producing a vivid and uniform wash of color.

With DC12V or DC24V configurations and a standard 14W/m power rating, buyers can treat the RGB COB series as a reliable multi-channel color mixing solution. When a project only requires overall color changing, smooth fading, or decorative ambient effects, this series provides a straightforward control structure without introducing the complexity of the pixel-level programming found in the Addressable series. It strikes the right balance between dynamic color capabilities and simplified installation logic.

Addressable COB Extends the Portfolio to Pixel-Controlled Motion

By incorporating external ICs and grouped control capabilities onto a continuous COB light strip, the Addressable COB series enables chasing, flowing, fading, and pixel-mapped dynamic effects without displaying noticeable dotted hotspots. This represents a significant upgrade over standard SMD addressable strips, combining the smooth aesthetic of chip-on-board manufacturing with the intricate programming potential of digital control systems.

The RGBIC COB strips achieve programmable group control through external addressable ICs. This allows the control system to address specific groups of COB LEDs independently, creating running water, rainbow transitions, and other complex dynamic lighting sequences. Established addressable-control architectures also give integrators a practical basis for matching the strip with compatible digital controllers and commissioning methods.

The Addressable COB series covers RGB, RGBW, and RGBCW base specifications, with chip densities such as 576, 784, and 840 LEDs per meter available in different configurations. This provides a clear attribute-based selection basis for varying color-channel structures and shows how the product range extends from static and overall color-changing applications into programmable dynamic control for sophisticated media and creative linear lighting.

A Series-First Selection Process Connects SignliteLED with Professional COB Projects

Professional procurement should begin by determining the functional level whether Mono, Tunable White, RGB, or Addressable- and then proceed to verify the voltage, controller, PCB, installation environment, and compatible accessories. This structured approach allows the serialized COB products to form a clear basis for inquiries and customization, preventing the common mistake of selecting a product based solely on brightness or price without considering the required control architecture.

Once the COB series is selected, buyers can verify model-level voltage, controller, PCB, thermal, connection, and mounting requirements before finalizing the order.

To complete the system, the manufacturer supplies aluminum profiles, solderless connectors, power supplies, and dimming controllers tailored to the COB range. Once the series is selected, buyers can continue to verify thermal management, connections, power, and dimming conditions, thereby reducing the risk of specification mismatches between the light strip and system components.

Frequently Asked Questions

Which COB series should a project choose: Mono, Tunable White, RGB, or Addressable?

Choose by the required light behavior. Mono suits fixed white illumination; Tunable White supports adjustable color temperature; RGB provides overall color changing; and Addressable COB adds programmable group or pixel-style effects. After selecting the color architecture, verify the exact voltage, PCB width, density, controller, and installation conditions for the model.

Does Addressable COB use the same control approach as standard RGB COB?

No. Standard RGB COB is used for overall multichannel color mixing, while Addressable COB uses integrated control architecture and external IC options on specific models to create independently programmable groups. The controller and commissioning method therefore need to match the selected addressable model and IC configuration.

What should buyers confirm before choosing a COB power and control system?

Confirm the series, operating voltage, PCB dimensions, power, color channels, controller or IC requirements, installation environment, and compatible accessories. Treating the strip, power supply, controller, connectors, and aluminium profile as one system reduces the risk of specifying components that cannot operate together.

Can COB strips be used where the light line is directly visible?

COB construction is well suited to visible linear applications because the dense chip arrangement and continuous light-emitting surface produce a smooth, dot-free appearance. The exact strip width, profile depth, thermal conditions, and output still need to be checked against the selected model and fixture

design.

To explore the COB and linear lighting products and project support information, visit
<https://www.signliteled.com/>



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