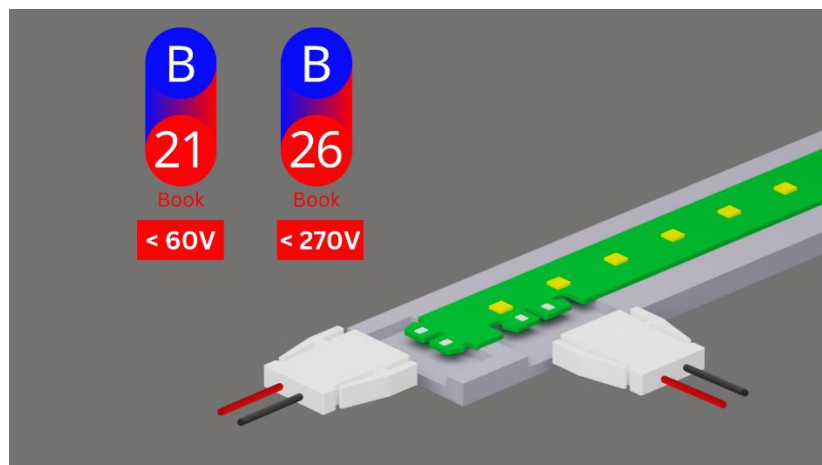


Press Release

Zhaga Unveils Book 21: Future-Proofing Luminaire Design with Linear Socketable LED Modules for SELV applications

Piscataway, NJ, USA – [13 March 2025] – Zhaga, the global lighting-industry consortium, proudly announces the launch of Zhaga Book 21, a new industry-standard specification designed to ensure full interoperability of LED modules in SELV applications. Building on the Zhaga Book 26 for non-SELV applications, which was launched in December 2024, Book 21 further strengthens Zhaga’s mission to promote sustainability, serviceability, and design flexibility in the lighting industry.

Zhaga Book 21 defines electro-mechanical, mechanical, electrical, thermal and photometrical interfaces for fully interoperable LED modules operating at SELV (<60V).



Key features of Zhaga Book 21 include:

- Modules can be connected in parallel, with operating currents ranging from 175 to 1750 mA depending on the module length and category.
- Different module lengths (1 to 5 ft) with recommended lumen packages
- Defined LED board areas for mechanically secure mounting
- Two alternative contact areas for electrical connections enabling seamless lighting applications and troffers or linear luminaires for trunking systems
- Plug-and-play compatibility

Standardization for a Future-Proof Lighting Industry

Zhaga Books 21 and 26 provide a future-proof solution by enabling OEMs and maintenance personnel to replace and upgrade linear LED modules without compatibility concerns. The standardized interfaces ensure:

- Reliable interchangeability of certified LED modules
- A cost-effective solution for luminaire assembly, maintenance, and upgrades

- Full flexibility in certified connector selection while maintaining interoperability
- Seamless integration into different luminaire designs, enhancing product longevity

Driving Sustainability and Service-Based Business Models

As part of Zhaga’s ongoing commitment to sustainability, Books 21 and 26 play a crucial role in transforming the lighting industry toward circular economy principles. The interface standardization of LED modules encourages reusability and upgradability, reducing electronic waste and supporting service-based business models.

Zhaga Certification: Ensuring Compliance and Market Confidence



Certification of LED modules, connectors and luminaires under Zhaga Book 21 and 26 is conducted by independent test centers. Certified products are listed in the Zhaga public database and may display the Zhaga certification logo, ensuring confidence in interoperability.

Benefits of Zhaga certification include:

- Interoperability assurance with next-generation LED modules
- Trademark-protected certification logos to prevent misuse
- Market advantages through a recognized and trusted certification system
- Availability of certified components from multiple suppliers, reducing supply chain risks

A Unified Approach to LED Module Design

With the launch of Zhaga Book 21, the industry gains an essential framework for linear socketable LED modules for SELV applications, complementing Book 26, which covers non-SELV applications. Together, these standards provide manufacturers, designers, and facility managers with a cohesive approach to lighting system development and maintenance.

Zhaga Book 21 is now available for Zhaga Regular and Associate Members.

For more information on Zhaga Book 21 and its role in advancing circular economy and sustainable lighting solutions, read the [presentation](#).

For more information on Zhaga Book 26, visit [here](#).

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About Zhaga Consortium

Zhaga is a global association of lighting industry members. Zhaga standardizes interface specifications for LED luminaire components, including LED light engines, LED modules, LED arrays, holders, electronic control gear (LED drivers), connectors, sensor and/or wireless communication modules and associated devices. The Zhaga interface standards enable multi-vendor ecosystem of interoperable products. To create trust in the interoperability of products from multiple vendors Zhaga has a certification and logo-program executed by third party test houses. Through its focus on interoperability, Zhaga contributes to circularity lighting via smart, connected lighting and serviceable luminaires, supporting the UN Sustainable Development Goal 11 for sustainable cities and communities. Zhaga has set up a partner and liaison program, working with recognized Standards Development Organizations and Alliances to maximize synergies, leverage external expertise and global acceptance. For more information, visit www.zhagastandard.org.