

Luminus' New SFT-03X LEDs Boost Brightness of Miniaturized Projectors for Consumer and Industrial Devices

SUNNYVALE, Calif., June 5, 2024, [Luminus Devices](#), a leading provider of innovative solid-state lighting solutions, is proud to announce the addition of the SFT-03X Red-Green-Blue (RGB) LED chipset to its projection product portfolio enabling extremely compact yet bright projection engines for embedded consumer and industrial applications.

Featuring a light emission size of only 0.345mm², the SFT-03X chipset is optimized for operation with small micro displays including Texas Instruments (TI) 0.16" DLP™ Digital Micro-Display (DMD) and sized to enable a projection engine with an extended depth of focus, allowing for a change to the projection distance without requiring manual adjustment. Comprising of individual Red-Amber, Converted Green and Blue LED emitters with high color saturation, the SFT-03X chipset helps create images and videos with vibrant colors that increase the perception of brightness to the human eye.

Thanks to an advanced compact package of only 3.0 mm x 3.0 mm per emitter and Luminus' high intensity projection chip technology, the SFM/SFT-03X LEDs achieves a market-leading combination of performance and efficiency delivering up to 50 lm typical brightness at 3-watt electrical power in an unprecedented 2 cm³ (cubic centimeter) form factor in a 2-channel configuration—all without requiring active cooling fans. For applications demanding even higher brightness levels, the chipset can scale up to 100 lm typical at higher input power with four active LED channels.

This miniature and cost-effective engine can easily be embedded in a variety of consumer and industrial host devices and deliver a projected image ranging from 12" to 20" depending on ambient lighting conditions. As such, the technology delivers a large display experience to the user without the large and bulky form factor of flat-panel displays such as LCD screens. A countless list of consumer applications includes battery-powered companion projectors for smart phones, augmented reality wearable displays, Homepods, smart home controllers, lighting track fixtures, bulb projectors, white goods such as refrigerators and washing machines where the projector delivers information signage, entertainment content or advanced lighting effects. In industrial applications, screen less displays are not subject to damage and can be used for industrial signage, retail displays and factory automation applications. The SFT-03X chipset is available immediately and may be purchased from most of Luminus' authorized distribution partners.

At-A-Glance



- Enables 50 lumens typical at 3-watt electrical power from an optical module of less than 2.0 cubic centimeters based on TI's 0.16" DLP micro-display. A typical 2-channel optical module of similar performance based on conventional solutions is over 8.0 cubic centimeters.
- A 50 lm engine enables a large projected image of 12 to 20" (diagonal), achieving a large display experience from an affordable embedded projection module
- Compact and affordable engine can be integrated in a large variety of industrial systems and consumers devices such as home assistants, white goods, lighting fixtures or home smart controllers, enabling a large and bright display without the bulky format of fixed LCD or similar flat-panel technologies.

For more information visit <https://luminus.com/products/color/monochromatic-smd> or email sales@luminus.com.

About Luminus Devices

Luminus Devices develops and markets solid-state lighting solutions (SSL) to help its customers migrate from conventional lamp technologies to long-life and energy-efficient LED illumination. Combining technology originated from the Massachusetts Institute of Technology (MIT) with innovation from Silicon Valley, Luminus offers a comprehensive range of LED and laser solutions for global lighting markets as well as high-output specialty lighting solutions for performance-driven markets including consumer displays, entertainment lighting and medical applications. Luminus is headquartered in Sunnyvale, California. For additional information please visit <http://www.luminus.com>.

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