ISSI Expands FxLED Family with Audio Modulated LED Driver to drive 144 LEDs

IS31FL3732 supports special effect LED functions for automotive, gaming, white goods and IoT platforms

SAN JOSE, Calif., Feb. 24, 2015 /PRNewswire/ -- Integrated Silicon Solution, Inc. (Nasdaq:ISSI), a leader in advanced memory and analog IC solutions, today announced its high performance matrix LED driver for use in automotive, consumer, industrial and emerging IoT applications. The IS31FL3732 is a compact LED driver for RGB color-effect with pre-programmed lighting and animation functions. These pre-programmed functions are accessed via a fast 1MHz I2C compatible interface with robust EMI performance, which reduces microcontroller demand, enhances performance and improves battery life.

The IS31FL3732 supports two arrays of 72 LEDs, for a total of 144 LEDs, which can be individually dimmed in 256 steps (8-bit) with 1/9 cycle rate. The signals to drive all 144 LEDs are multiplexed to a reduced count of 18 that requires fewer traces and optimizes PCB space. The IS31FL3732 integrates 8 frames of memory, which can be displayed with programmable time delays to create LED matrix animations. For an extra dimension of animation, analog inputs such as audio signals can be used to modulate the LED display intensity.

The IS31FL3732 also allows multiple ICs to be synchronized without additional external components for applications such as Bluetooth speakers, internet gaming peripheral devices, white good appliances, toys and personal electronics.

"The ISSI FxLED driver can multiplex up to 16 devices in a cascade arrangement delivering unique lighting effects," said Ven Shan, ISSI VP of Analog products. "The IS31FL3732 offers the highest performance in its class and is capable of driving up to 2304 LEDs for a range of applications."

The IS31FL3732 matrix LED driver is available in a small QFN-40 (5mm × 5mm) package. The device's operating voltage of 2.7V to 5.5V over the industrial temperature range of -40°C to +85°C offers individual blink, on/off control, 256 step global current control, and auto intensity breathing during the switching of different frames. For more information on this and other RGB LED products, visit the ISSI Analog products website at http://www.issi.com/US/product-analog-fxled-driver.shtml or download the IS31FL3732 data sheet at http://www.issi.com/WW/pdf/31FL3732.pdf.

Price and Availability

The IS31FL3732 is available now at a price of $1.45 for the 5X5 QFN-40 package in 1,000 piece quantities.

ISSI Analog Product Line

The IS31FL3732 is a member of ISSI's FxLED line of "fun light" drivers which add an attractive multi-color aspect to any application. The FxLED driver family blends the Red-Green-Blue LEDs to produce a broad range of predefined colors and sequences into 3 to 144 LED channels. The ISSI analog product line includes five different members; FxLED Driver, Audio Amplifier, HBLED Driver, White (Backlight) LED Driver, and I/O Power Management IC devices.

The ISSI analog product line was launched to address the automotive, consumer and industrial market segments with a reliable source of quality and long-term IC supply. Leveraging on the success of its automotive-grade memory products, ISSI is readying the analog product line to meet the stringent demands of automotive designs as well as tier-1 consumer and industrial applications.

ISSI ®

INTEGRATED SILICON SOLUTION, INC.

About ISSI

ISSI is a fabless semiconductor company that designs and markets high performance integrated circuits for the following key markets: (i) automotive, (ii) communications, (iii) industrial, medical, and military, and (iv) digital consumer. The Company's primary products are high speed and low power SRAM and low, and medium, and high density DRAM. The Company also designs and markets NOR flash products and high performance analog and mixed signal integrated circuits. ISSI is headquartered in Silicon Valley with worldwide offices in Taiwan, Japan, Singapore, China, Europe, Hong Kong, India, and Korea. Visit our web site at http://www.issi.com/

To view the original version on PR Newswire, visit:http://www.prnewswire.com/news-releases/issi-expands-fxled-family-with-audio-modulated-led-driver-to-drive-144-leds-300040071.html

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