

Frequently Asked Questions

1) Does Light-Based Technologies own the technology?

Yes, Light-Based Technologies is the inventor of this innovative, revolutionary, analogue technology.

2) Is the technology patented?

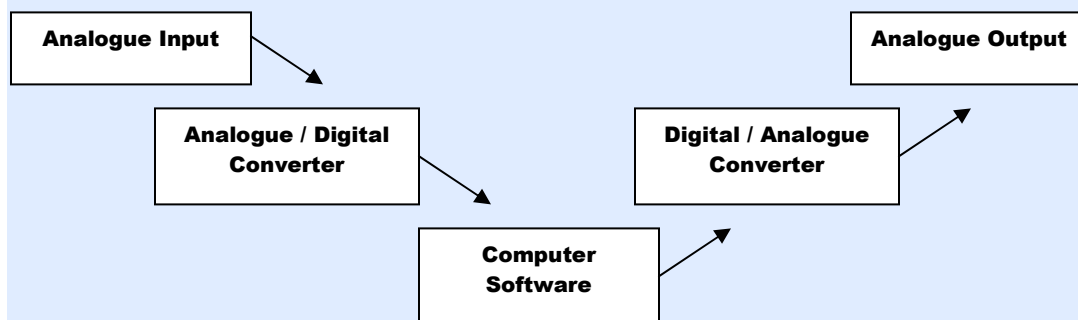
Yes, our technology is patent pending. For more information on our patent applications and status, please contact us direct at info@lightbasedtechnologies.com.

3) Is this technology analogue or digital?

Our technology is ANALOGUE end to end. This offers a seamless flow of color information not possible with digital technologies given their 0-1 nature.

Our analogue techniques offer simple, cost-effective alternatives to expensive, complex or inexpensive, limited digital color generation and control technologies in a number of applications, beginning with lighting. Our techniques allow for direct analogue input to manipulate the color information output, such as audio, optical and sensory signals, with direct analogue drivability to all light loads, which are generally analogue in nature.

Digital Light Control Methodology



LBT Light Control Methodology



4) Does this technology use pulse-width modulation?

No. Light-Based Technologies does not use any pulse-width modulation or clock pulse technologies to perform color generation and control functions. Our technology is a pure analogue AC or DC linear color information generation and selection technology. We are pleased to identify this as a key unique factor to our technology portfolio.

5) Can you drive this technology with digital controls?

Definitely. Traditionally, many digital systems have been developed to mimic analogue functions but in a digital, 0-1 format. In our effort to re-introduce the power of analogue data and control to the global marketplace, Light-Based Technologies understands that it is critical to offer solutions and alternatives to help companies make the transition to a new technology. Not only can you drive the LB3CSA1 ASIC with digital information, the LB3CSA1 can be used to drive digital technologies as well.

Using this ASIC and its IP minimizes and/or eliminates the need for complex software and microprocessors to manipulate the color information output. This is especially important for simple applications such as RGB string lights and dome lights. This also means that you no longer need to worry about software upgrades and changes. All of our technologies and products are made to interchange with existing technologies from both Light-Based Technologies and all other companies around the world.

For more information, please see our Application Notes section for data sheets outlining the details of how this works. Light-Based Technologies also offers completed Engineering Support and Module Design services to assist you in making the transition to our ASICs and IP.

6) What markets does this technology apply to?

Our technology is very open-ended and non-proprietary in its nature to communicate with other technologies. The most basic, visible application for the LB3CSA1 and its related IP is lighting, both color and white lighting control.

With the increasing use of LEDs in lighting products, it is important for companies to have simple, cost-effective options to control LEDs. Not only does our LB3CSA1 ASIC and associated IP manipulate RGB LEDs (or one red, one green and one blue – or other arrangement if desired), this technology allows you to control 1) brightness, 2) overlap and 3) speed of cycle, all with a simple variable resistor. You cannot get much simpler than that!

7) How much does the LB3CSA1 cost?

Our pricing for the LB3CSA1 is below \$2.00 a piece per 100. Quantity discounts thereafter.

8 Does Light-Based Technologies deliver worldwide?

Yes. Light-Based Technologies delivers the LB3CSA1 ASIC worldwide. Shipping charges will be added to your order and are directly related to quantities and locations of shipping. For IP and licensing inquiries, please contact info@lightbasedtechnologies.com with your contact information and exact inquiry.

9 What format does the LB3CSA1 come in?

The LB3CSA1 ASIC is readily available in:

- Die
- SOP8 (tube and reel)
- DIP8
- MSOP8 (tube and reel)
- QFN8 (bag and reel)

For more information on these dimensions, please visit our Application Notes section.

10) Does Light-Based Technologies develop products?

Aside from ASIC and total-solution module products, Light-Based Technologies intends to license the LBT Technology Portfolio to companies that are experts in their product and technology fields. We also offer total product ideas and solutions, and work with all clients to ensure all parties' needs are met in a win-win business environment. For more information, please contact sales@lightbasedtechnologies.com.

If you have questions and they are not answered here, please feel free to contact us directly at info@lightbasedtechnologies.com.