

# Lightwave Logic, Inc.

Fact Sheet

**L W L G**

**S Y M B O L**

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# LIGHTWAVE LOGIC

## QUICK REFERENCE

LightWave Logic Inc.  
Trading Symbol: LWLG

Website: [www.LIGHTWAVELOGIC.com](http://www.LIGHTWAVELOGIC.com)

## BUSINESS SUMMARY

Lightwave Logic, Inc. is developing a platform leveraging its proprietary engineered electro-optic (EO) polymers to transmit data at higher speeds with less power. The company's high-activity and high-stability organic polymers allow Lightwave Logic to create next-generation photonic EO devices, which convert data from electrical signals into optical signals, for applications in data communications and telecommunications markets.

## UNIQUE GROWTH OPPORTUNITIES

Lightwave Logic's electro-optic polymer (EO) technology is an ideal solution for the high-speed optical fiber communications market.

- Application of Electro-Optic (EO) Polymers to High-Speed Optical Fiber Communications  
*A fiber link sends data from a transmitter to a receiver through an optical fiber cable. Lightwave Logic's technology can be used to make a data modulator, a central function of the transmitter.*
- Advantages of EO Polymers for High-Speed Optical Fiber Communications  
*Modulator performance limits the speed of the transmitter, which in turn limits the data-carrying capacity of the entire fiber link. EO polymers have superior speed and sharply reduce the electrical power needed to operate the modulators.*
- Large and Growing Optical Fiber Communications Market  
*Lightwave Logic estimates that in 2019, the total market for opto-electronic components used in the fiber optics market reached a value of ~\$26 billion and is forecasted to grow to approximately \$80 billion by 2030.*
- Other Markets  
The benefits of EO polymers, such as low power usage, high speed, increased throughput and lower cost make them ideally suited for markets outside of communications as well, including in consumer, media, augmented reality/virtual reality, medical and industrial applications.

## CONTACT INFORMATION

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## **Recent Press Releases** (*Headlines and Excerpts*)

### **Lightwave Logic Announces Breakthrough Test Results from New Super-Fast Optical Modulator**

June 16, 2021 -- Lightwave Logic, Inc. announced test results from new modulators fabricated in 2021, which exceeded bandwidth design targets and achieved triple the data rate as compared to competing devices in use today.

The unparalleled modulator devices were designed and fabricated in Lightwave logic's Colorado facility on a silicon semiconductor platform. The breakthrough new devices demonstrated 3dB electro-optical with electrical bandwidths that exceed 100GHz – with measurements coming close to Lightwave Logic's state-of-the-art 110GHz test equipment capability.

### **Lightwave Logic to Present at LD Micro Invitational XI**

June 8, 2021 -- Lightwave Logic, Inc. announced that management will present at the LD Micro Invitational XI investor conference taking place virtually June 8-10, 2021.

Dr. Michael Lebby, Chief Executive Officer, is scheduled to host a virtual investor presentation to investors during the event as follows:

2021 LD Micro Invitational XI

Date: Thursday, June 10, 2021

Time: 2:00 p.m. EDT – Track 3

Webcast: <https://ldmicrojune2021.mysequire.com>

A live audio webcast and archive of the event presentation will be available using the webcast link above. For more information on the LD Micro Invitational XI, or to register for the event, please visit <https://ldmicrojune2021.mysequire.com>.

### **Lightwave Logic Announces Inclusion in the Solactive EPIC Core Photonics EUR Index**

June 7, 2021 -- Lightwave Logic, Inc. announced that it will be added to the Solactive EPIC Core Photonics EUR Index NTR as part of the index's semi-annual additions.

The Solactive EPIC Core Photonics EUR Index NTR aims to present the performance of a portfolio of publicly listed global companies which derive at least 66% of their revenues from photonics manufacturing activities. The current 59 member securities are weighted based on their free float market capitalization, subject to certain weight caps. Solactive is a leading provider of indexing, benchmarking, and calculation solutions for the global investment and trading community.

### **Lightwave Logic Announces Receipt of U.S. Patent for High-Volume Manufacturing Processes for Electro-Optic Polymer Modulators**

May 11, 2021 -- Lightwave Logic, Inc. announced the receipt of a patent on a new invention to allow for improved protective polymer layers in modulators when designed into advanced integrated photonic platforms, better positioning them for high-volume manufacturing processes.

The protective layers, protected by U.S. Patent number 10,989,871, will enhance electro-optic polymer devices' performance through higher reliability, better optical performance and enable the use of standardized manufacturing processes best suited for mass-production.

### **Lightwave Logic to Host Virtual Annual Meeting of Shareholders on May 27, 2021**

May 3, 2021 -- Lightwave Logic, Inc. announced the scheduling of its Virtual Annual Meeting of Shareholders for 12:00 p.m. Eastern time on Thursday, May 27, 2021.

The meeting will be held in a virtual format as a result of public health risks due to the ongoing COVID-19 pandemic. To attend the Virtual Annual Meeting of Shareholders, please click on the link below and enter the 16-digit control number included on your proxy card or on the instructions that accompanied your proxy materials.

Virtual Annual Meeting of Shareholders

When: Thursday, May 27, 2021 <> Time: 12:00 - 2:00 p.m. (Eastern Time)

Access Link: [www.virtualshareholdermeeting.com/LWLG2021](http://www.virtualshareholdermeeting.com/LWLG2021)

This Company Fact Sheet is distributed by Andrew Barwicki, Investor Relations. Contact Info: 516-662-9461 / [andrew@barwicki.com](mailto:andrew@barwicki.com)  
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