



## Press Release

# TRUMPF and Optomind showcases 100Gbps VCSEL performance in 800Gbps transceiver at OFC

**Demonstration at TRUMPF booth // Performance optimized for short reach (SR) using TRUMPF VCSEL inside Optomind's transceiver**

*Ulm/San Diego, March 22, 2024* – TRUMPF Photonic Components, a global leader in VCSEL and photodiode solutions for data communication, is showcasing 100Gbps VCSEL performance at the Optical Fiber Communication Conference and Exhibition (OFC) in San Diego, CA. This demonstration with one of their customers reaffirms TRUMPF's commitment and leadership in datacom area. With increasing demand for multichannel high-speed data transmission in AI/ML-based hyperscale cloud computing space, 800 Gbps data rate at 100Gbps per lane and beyond is essential.

“We are delighted to have achieved a performance of 800Gbps in our transceiver leveraging innovative optics technology and TRUMPF's VCSEL” commented Yung Son, Chief Marketing Officer of Optomind. “We look forward to solidifying our partnership with TRUMPF as the strategic best-in-class VCSEL supplier for distinguished transceiver and active optical cable (AOC) to our customers,” he added.

“We are pleased to have collaborated with Optomind to demonstrate the performance of our VCSEL at PAM4 112Gbps/ch in their transceiver, which validates the use of it in a real-world application,” says Ralph Gudde, Vice President of Marketing and Sales at TRUMPF Photonic Components. “A full-featured version of our 100G VCSEL is planned for production release this summer. TRUMPF is diversified, has a strong technology background and brings solid long-term commitment as a technology partner and a key supplier into the datacom business.” he explained.

Advanced optical data communication systems benefit from the high-speed data transmission which the VCSEL-based technology offers. For interconnect distances of up to 100 meters, VCSELs are the best solution in terms of power, cost and the productivity of SR modules. TRUMPF is offering both VCSELs and photodiodes as a matching pair solution, in singlets, 1x4 arrays and 1x12 arrays for 14G and 25G for the NRZ applications. The same is offered for 56G PAM4 applications. The VCSELs are specifically designed and implemented to meet the requirements of hyperscale data centers including for AI/ML applications, high-performance computing systems, and other



## Press Release

bandwidth-intensive applications, as they deliver high performance and reliable data transmission at high speeds.

### **Visit TRUMPF Photonic Components at OFC 2024, Booth 2000 and Optomind Booth 5822**

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**Picture 1: VCSEL and photodiodes as 1x1, 1x4 or 1x12 arrays**

TRUMPF offers VCSEL and photodiode solutions as pairs. © TRUMPF



**Picture 2: Ralph Gudde, VP Marketing & Sales at TRUMPF Photonic Components © TRUMPF**



**Picture 3: Yung Son, Chief Marketing Officer at Optomind**



## Press Release

### **About TRUMPF Photonic Components**

TRUMPF Photonic Components is a global technology leader, supplying VCSEL and photodiode solutions for consumer electronics, datacom, industrial sensing and heating markets. More than two billion VCSEL chips and photodiodes have been shipped worldwide so far. The employees continue to drive the technological know-how established for over 20 years now in order to maintain its leadership position. The long-established technology was acquired by TRUMPF in 2019. The company has its headquarters in Ulm, Germany, with further sales locations in the Netherlands, China, Korea and the US.

TRUMPF Photonic Components belongs to the TRUMPF Group, a high-technology company that offers production solutions in the machine tool and laser sectors. TRUMPF is the world technological and market leader for machine tools used in flexible sheet metal processing, and also for industrial lasers and metal 3D printing. In 2022/23, the company employed some 18,400 people and generated sales of about 5.4 billion euros. With over 80 companies, the TRUMPF Group is represented in nearly every European country as well as in North America, South America and Asia. The company has production facilities in Germany, France, the United Kingdom, Italy, Austria, Switzerland, Poland, the Czech Republic, the United States, Mexico and China.

For more information about TRUMPF Photonic Components visit: [www.trumpf.com/s/VCSEL-solutions](http://www.trumpf.com/s/VCSEL-solutions)

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### **About Optomind**

Optomind, Inc. is the most advanced optical interconnect solution provider in data center including AI and HPC networks. Our advanced optical engine and innovative O-EBO optical connector enables 800Gbps and 400Gbps Gearbox transceiver for AI/ML system to meet the requirements. We are supplying the product in volume to support increasing demand. Sophisticated OSA assembly is conducted in Suwon, South Korea, where its headquarters is located, and downstream production is done at the facility in Hanoi, Vietnam.



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For more information about Optomind, Inc. visit: [www.optomindinc.com](http://www.optomindinc.com)

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