

Sivers Semiconductors to develop CW-WDM MSA compliant DFB laser arrays

Sivers Semiconductors AB today announced that its subsidiary, Sivers Photonics, will develop CW-WDM MSA compliant laser arrays that support Ayar Labs' optical I/O solution. Ayar Labs is the leader in integrated optical I/O and is pushing the boundaries for AI, cloud, high-performance computing, 5G, and LIDAR.

The announcement comes after Ayar Labs demonstrated the industry's first Terabit per second Wavelength Division Multiplexing (WDM) optical link with its TeraPHY™ optical I/O chiplet and SuperNova™ multi-wavelength optical source, supporting high data rate advanced optical communication and computing applications.

Sivers Photonics new InP100 platform will form a crucial part of the CW-WDM MSA supply chain, designing and manufacturing bespoke high power DFB laser arrays that will support the ongoing development of Ayar Labs' multi-wavelength optical sources.

The SuperNova™ multi-wavelength optical source is the first product compliant with the optical source specifications of the CW-WDM MSA, for which Sivers Photonics is also a promoter member. The CW-WDM MSA (Continuous-Wave Wavelength Division Multiplexing Multi-Source Agreement) was formed to standardise CW-WDM sources in O-band for emerging advanced Silicon Photonics (SiPh) based optics applications that are expected to move to 8, 16, and 32 wavelengths, to support high volume datacom optics in application areas including artificial intelligence, high performance computing, and cloud data services.

Billy McLaughlin, Managing Director of Sivers Photonics says, *"We have worked very hard creating this platform to support DFB array technology for CW-WDM MSA applications. Our InP100 platform is accelerating time to market for many Silicon Photonics applications. Our bespoke high power DFB laser arrays are the perfect fit to serve Ayar Labs' SiPh integration requirements for development in this high-volume market. As a promotor member of the CW-WDM MSA, we are excited to work with Ayar Labs."*

Anders Storm, Group CEO of Sivers Semiconductors says *"Ayar Labs was designated one of three companies in the 2021 Gartner 'Cool Vendors in Silicon Photonics' report. Ayar Labs optical device technology will transform next generation computing and Sivers Photonics are excited to be engaged in this new technology."*

"A strong ecosystem of partners and suppliers who deliver products based on the CW-WDM MSA standard is essential for the optical I/O market to meet the ever-growing bandwidth needs of data-intensive applications", says Charles Wuischpard, CEO of Ayar Labs. "Sivers Photonics' bespoke DFB laser arrays based on the CW-WDM MSA spec are a critical component for our solution and move us one step closer to delivering optical I/O at scale."

For more information please contact:

Anders Storm, Group CEO of Sivers Semiconductors

Tel: +46 70 262 6390

E-mail: anders.storm@sivers-semiconductors.com

Gartner Disclaimer: Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

***Sivers Semiconductors AB** is a leading and internationally recognized technology company that, through its two business areas Wireless and Photonics, supplies chips and integrated modules. Wireless develops RF chips and antennas for advanced 5G systems for data and telecommunications networks. Photonics develops and manufactures semiconductor-based optical products for optical fiber networks, sensors and optical fiber communications (Li-Fi). The company is listed on Nasdaq Stockholm under SIVE. The head office is located in Kista, Sweden. For more information contact: www.sivers-semiconductors.com*