

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."

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