

Press Backgrounder

Sivers Semiconductors AB is a leading and internationally recognized supplier of semiconductor components to the wireless and optical data & telecommunications markets through its two business areas, Wireless and Photonics.

Sivers Semiconductors is listed on Nasdaq Stockholm under SIVE. The head office is located in Kista, Sweden.

More information: www.sivers-semiconductors.com

Sivers Wireless

Sivers Wireless supplies RF chipsets and antennas for advanced 5G systems for data and telecommunications networks. The proliferation of wireless devices – and the congestion on current radio frequency bands – drive data and telecom companies to find solutions that can reliably exploit more bandwidth at higher radio frequencies, increasing speed, power, and reliability.

Sivers Wireless is a leading innovator of 5G millimeter-wave (mmWave) semiconductor and antenna technologies and offers a broad range of Radio Frequency Integrated Circuits (RFICs) and integrated modules for use in both licensed and unlicensed 5G frequencies, from 24GHz to 71GHz.

More information: <https://www.sivers-semiconductors.com/sivers-wireless/>

Sivers Photonics

Sivers Photonics is one of the world's most advanced suppliers of customized III-V compound semiconductor laser devices which are critical to high-growth optical communications, sensing and wireless markets.

- **Optical communications** used for cloud storage and communications, high performance computing, 5G fronthaul, and artificial intelligence (AI)
- **Optical sensing** enables 3D sensing and consumer biometrics, autonomous and assisted driving vehicles (LiDAR), emerging Quantum technologies, and optical spectroscopy applications
- **Optical wireless** components are used for free-space optical communications using light (LiFi)

The Sivers Photonics foundry provides end-to-end design, in-house capability, from epitaxy and prototype device design to qualified high-volume manufacturing.

More information: <https://www.sivers-semiconductors.com/sivers-photonics/>

Company facts & milestones

- Company founded in 1951
 - Long history and RF engineering expertise in advanced wireless microwave technologies
 - Today Sivers Semiconductors is a market-leader in advanced 5G mmWave chipsets and integrated antennas
 - Offices in Sweden (Kista/Stockholm and Gothenburg), UK (Glasgow) and US (California)
- Sivers Photonics (then Compound Semiconductor Technologies Ltd.) was acquired by Sivers in 2017

- Photonics is now one of two core business areas in Sivers Semiconductors, alongside Wireless
- The company's expertise in Silicon Photonics (SiPh) integration using advanced, Silicon CMOS manufacturing technology, and its core capability in custom, Indium Phosphide (InP) laser source design and manufacture are recognized worldwide
- Sivers Semiconductors is listed on Nasdaq Stockholm main market (MidCap segment) since June 10, 2021 with a current Market Cap of approx 4 billion SEK
 - Previously listed on the Nasdaq First North Growth Market (SmallCap segment) November 30, 2017 - June 9, 2021
 - Prior to that, the shares were listed on the Spotlight Stock Market
- **26** design wins to date (as of Q2 2021) in 5G mmWave, of which **5** new in 2021
- Broad range of customers in Photonics
 - Established volume supplier, shipping around **1 million** lasers per month with over **45 million** lasers in the field
 - **2** Fortune 100 customers in exciting new area of optical sensing
- Cutting-edge research collaborations / projects led by PhD's in Photonics – key technologies in development within current research projects include:
 - 25 Gb/s VCSEL arrays for power saving, data center connections
 - Single photon transmitters and receivers for atomic clocks
 - Quantum cascade lasers for sensing and analytics
 - Virtual fabrication across the European Foundry Network
- Currently the only commercially available RFIC and antenna module vendor on the market that covers the whole 57-71 GHz frequency range for unlicensed 5G in one single hardware
 - Industry Paper Award (1st Place) at IEEE RFIC Symposium 2018 for technical paper on 57-71 GHz beamforming transceiver for Fixed Wireless Access

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