

The 2025-2030 World Outlook for Compound Semiconductors

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Abstracts

This study covers the world outlook for compound semiconductors across more than 190 countries. For each year reported, estimates are given for the latent demand, or potential industry earnings (P.I.E.), for the country in question (in millions of U.S. dollars), the percent share the country is of the region, and of the globe. These comparative benchmarks allow the reader to quickly gauge a country vis-à-vis others. Using econometric models which project fundamental economic dynamics within each country and across countries, latent demand estimates are created. This report does not discuss the specific players in the market serving the latent demand, nor specific details at the product level. The study also does not consider short-term cyclicalities that might affect realized sales. The study, therefore, is strategic in nature, taking an aggregate and long-run view, irrespective of the players or products involved.

In this report we define the sales of compound semiconductors as including all commonly understood products falling within this broad category, such as III-V, II-VI, IV-IV, and sapphire compound semiconductors; chemical vapor deposition (CVD), ammonothermal, and molecular beam (MBE), hydride vapour phase (HVPE), metal-organic vapour phase (MOVPE), and liquid phase epitaxy (LPE), and atomic layer (ALD) deposition technologies; and power and opto electronic semiconductors, irrespective of product packaging, formulation, size, or form. Companies participating in this industry include AMS, Analog Devices, Broadcom, Cree, EPC, Ericsson, Freescale Semiconductor, GaN Systems, II-VI, Infineon, International Quantum Epitaxy, IQE, LM Ericsson Telefon, Lumentum, MACOM, Microchip, Mitsubishi Electric, NeoPhotonics, Nichia, NXP, ON Semiconductor, Qorvo, Qualcomm, Renesas Electronics, ROHM, Samsung Electronics, San'an, Skyworks, STMicroelectronics, Sumitomo Chemical, Taiwan Semiconductor Manufacturing Company, Texas Instruments, Toshiba Corporation, Transphorm, and VisIC Technologies. In addition to the sources indicated,

additional information available to the public via news and/or press releases published by players in the industry was considered in defining and calibrating this category. All figures are in a common currency (U.S. dollars, millions) and are not adjusted for inflation (i.e., they are current values). Exchange rates used to convert to U.S. dollars are averages for the year in question. Future exchange rates are assumed to be constant in the future at the current level (the average of the year of this publication's release in 2024).

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