

The 2023-2028 Outlook for Semiconductors in China

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Abstracts

This study covers the latent demand outlook for semiconductors across the regions of China, including provinces, autonomous regions (Guangxi, Nei Mongol, Ningxia, Xinjiang, Xizang - Tibet), municipalities (Beijing, Chongqing, Shanghai, and Tianjin), special administrative regions (Hong Kong and Macau), and Taiwan (all hereafter referred to as 'regions'). Latent demand (in millions of U.S. dollars), or potential industry earnings (P.I.E.) estimates are given across some 1,100 cities in China. For each major city in question, the percent share the city is of the region and of China is reported. Each major city is defined as an area of 'economic population', as opposed to the demographic population within a legal geographic boundary. For many cities, the economic population is much larger than the population within the city limits; this is especially true for the cities of the Western regions. For the coastal regions, cities which are close to other major cities or which represent, by themselves, a high percent of the regional population, actual city-level population is closer to the economic population (e.g. in Beijing). Based on this 'economic' definition of population, comparative benchmarks allow the reader to quickly gauge a city's marketing and distribution value vis-à-vis others. This exercise is quite useful for persons setting up distribution centers or sales force strategies. Using econometric models which project fundamental economic dynamics within each region and city of influence, latent demand estimates are created for semiconductors. 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 semiconductors as including all commonly understood products falling within this broad category, irrespective of product packaging, formulation, size, or form. Companies participating in this industry include Advanced Micro Devices, Air Products & Chemicals, Albemarle Corporation, AMD,

Amkor Technology, Analog Devices, Apple, Applied Materials, Ashland, Inc., BASF, Bharat Electronics, Bourns, Bright Led Electronics, Broadcom, Cabot Microelectronics, Carlo Gavazzi Holding, CML Technologies GmbH & Company, Cree, Cypress Semiconductor Corporation, Digi International, Diodes, DowDuPont, Efficient Power Conversion, ELAN Microelectronics, eMagin, Fujifilm, Fujitsu, GaN Systems, GCT Semiconductor, Global Semiconductor Alliance (GSA) had named NVIDIA Corporation, Hitachi, Honeywell International, Inc., Infineon, Intel, IPG Photonics, JSM, Kingston Technology Company, KMG Chemicals, Lattice Semiconductor, Linde Group, Linear Technology, Lite-on Semiconductor, Maxim Integrated Products, MediaTek, Melexis, Microchip Technology, Micron, Microsemi Corporation, MOSPEC Semiconductor, N X P Semiconductors, NXP, Oki Electric Industry Company, OmniVision Technologies, Inc. (OVT), ON Semiconductor Corporation, Qorvo, Qualcomm, Renesas, Robert Bosch GmbH, ROHM Company, Samsung, Seiko Epson Corporation, Semtech, SK Hynix, Sony, STMicroelectronics, Taiwan Semiconductors Manufacturing Company, Texas Instruments, TI, TOREX Semiconductor, Toshiba, Transphorm, Vishay Intertechnology, Western Digital, and Wolfspeed. 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 2022).

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