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Market Share: Semiconductor Foundry, Worldwide, 2021

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Initiatives: Technology Market Essentials

Revenue for semiconductor foundry services jumped 31.3% in 2021 to become $100.2 billion. Raised wafer selling prices, secured by long-term agreements with customers during chip shortage, accounted for about half of the revenue growth

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Overview

The ranking of top 10 foundries has changed in 2021 from 2020 due to the incredible business growth by Samsung Foundry, TSMC and Shanghai HuaHong Grace Semiconductor Manufacturing (HHGrace).

— TSMC maintained its revenue growth and market share due to the continuous success in supplying advanced nodes including the 5 nanometer (nm) wafers.

— Samsung Foundry became the No. 2 position for its strong growth in serving U.S. customers such as NVIDIA, Tesla and Qualcomm.

— UMC, No. 3, was able to maintain a 27% growth from higher wafer prices and more wafer shipped in 28nm and above nodes.

— GlobalFoundries (GF) was No. 4 position for serving 14 to 12 nm wafers required by AMD’s chiplets and high demand of its legacy nodes in Singapore fabs in 2021.

— SMIC had a 39% increase of business serving Chinese customers in 14nm and wider geometries nodes.

— Powerchip Manufacturing Technology, PSMC, jumped to become No. 6 for its success in serving the driver IC business.

— HHGrace ranked in No. 7 was in healthy demand from the strength across MCU, smart cards, super junction, Power MOSFET and discrete serving Chinese customers.

— Vanguard International maintained its No. 8 position for having strength from its success in the higher margin PMIC business and the demand of large display drivers.

— Tower Semiconductor fell to No. 9, but had a nice rebounded back business in the second half of 2021.

— No. 10, Shanghai Huali Microelectronics (HLMC) had an increase in revenue for serving the high demand CMOs Imagine Sensor market when three or four camera modules are used in premium smartphones

Document Revision History

Market Share: Semiconductor Foundry, Worldwide, 2020 - 25 March 2021

Market Share: Semiconductor Foundry, Worldwide, 2019 - 6 April 2020

Market Share: Semiconductor Foundry, Worldwide, 2018 - 5 April 2019

Market Share: Semiconductor Foundry, Worldwide, 2017 - 3 April 2018

Market Share: Semiconductor Foundry, Worldwide, 2016 - 30 March 2017

Market Share: Semiconductor Foundry, Worldwide, 2015 - 31 March 2016

Market Share: Semiconductor Foundry, Worldwide, 2014 - 23 March 2015

Market Share: Semiconductor Foundry, Worldwide, 2013 - 24 March 2014

Market Share: Semiconductor Foundry, Worldwide, 2012 - 27 March 2013

Market Share: Semiconductor Foundry, Worldwide, 2011 - 15 March 2012

Market Share: Semiconductor Foundry, Worldwide, 2010 - 25 March 2011

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Market Share: Semiconductor Foundry, Worldwide, 2020

Market Definitions and Methodology: Semiconductor Foundry Services

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