

GeChi Compound Semiconductor Co., Ltd.

Scaling SiC Manufacturing for Next-Gen Semiconductor Applications

2025/3/11

QIC Research Team
research@qtumic.com
02-2325-3563

COMPANY OVERVIEW

Founded in 2022, GeChi Compound Semiconductor (GCCS) is a leading silicon carbide (SiC) technology provider. Specializing in third-generation semiconductor materials, GCCS focuses on SiC crystal growth, wafer technology development, and advanced manufacturing. With a commitment to localizing semiconductor material production, the company is strategically expanding into high-frequency communication, consumer electronics, and the automotive sector. By leveraging its expertise in SiC technology, GCCS aims to drive innovation and strengthen Taiwan's position in the global semiconductor supply chain.

KEY POINTS

Localization of Semiconductor Material Production: Headquartered in Zhongli District, Taoyuan City, Taiwan, GeChi Compound Semiconductor (GCCS) is dedicated to localizing silicon carbide (SiC) semiconductor materials to ensure superior quality and competitive pricing for the domestic market. The company specializes in thermal field design, seed crystal adhesion, raw material particle size control, and carbon-silicon ratio management, giving it a strong technical foundation in third-generation semiconductors.

Cutting-Edge SiC Manufacturing and Expansion Plans: GCCS's product portfolio includes 6-inch and 8-inch SiC ingots, wafers, seed crystals, and epitaxial wafers. Led by CTO KW Yeh and VP Digo Lai, an industry expert with over 20 years of experience in crystal growth, the company has successfully overcome mass production challenges for 6-inch SiC wafers and supplies both fabs and device manufacturers. In October 2024, GCCS completed its NTD 600 million Zhongli facility, equipped with 20 8-inch and 100 6-inch crystal growth furnaces, supporting a monthly output of 5,000 6-inch wafers. By 2025, GCCS plans to expand its 8-inch crystal growth furnace capacity to 200 units, strengthening its position in the SiC market.

Strategic Partnerships for 5G/B5G and Global Expansion: GCCS is actively expanding its market reach through strategic collaborations. It has signed a partnership agreement with the National Chung-Shan Institute of Science and Technology (NCSIST) to co-develop SiC components for high-frequency communications, facilitating its entry into the 5G/B5G infrastructure market. Additionally, a partnership with Mitsubishi Materials Trading Corporation will provide 6-inch and 8-inch epitaxial wafers (EPI wafers), while GCCS integrates Taiwanese supply chain resources to deliver SiC ingots, wafers, and epitaxial wafers to Japanese customers.

Financial Strength and IPO Plans: In October 2023, GCCS completed its Series A funding round, raising NTD 1.5 billion, demonstrating strong investor confidence in its growth potential. The company has ambitious plans to go public in 2026, positioning itself as a key player in the global SiC semiconductor industry. With a focus on scaling production, expanding partnerships, and driving innovation, GCCS is set to become a major force in the next-generation semiconductor market.

MANAGEMENT PROFILE

Company	Name	Title
GeChi Compound Semiconductor	Chang, Chung-Chieh	Chairman & General Manager

Background: Dr. Chung-Chieh Chang founded GCCS in 2022 and currently serves as its Chairman and General Manager. Previously, he was affiliated with National Academy of Taiwan. He is also the Founder and Chairman of GUS Technology.

Education: Chang received a PhD in Chemical Engineering from Feng Chia University and a Bachelor in Chemical Engineering from Tamkang University.

