

XDMicro (Zhongshan) Begins First Phase Construction of New LCOS Microdisplay Facility

Category:news info Release time:2022-10-12 17:46:49

On September 5th, 2022, construction officially began on the first phase of XDMicro (Zhongshan) Optoelectronic Semiconductor Co., Ltd.'s headquarters facility. The initial 50-acre site will host a 66,700-square-meter production base for silicon-based LCOS chip filling, sealing, testing, and optical-mechanical module R&D. Upon completion in 2024, the facility is expected to reach an annual production capacity of over 3 million silicon-based LCOS microdisplays. This milestone marks the arrival of one of the world's leading LCOS microdisplay enterprises in the Torch Development Zone (Minzhong), reinforcing Zhongshan's optoelectronic industry chain, supporting industrial upgrades, and enhancing regional competitiveness.

XDMicro (Zhongshan) is a global leader in LCOS microdisplay solutions. Specializing in optoelectronic semiconductor chips, the company develops high-definition, full high-definition, and ultra-high-definition LCOS microdisplays, image drivers, and optical engines. These solutions are widely applied in ultra-portable devices, high-brightness projection, head-up displays, near-eye Metaverse displays, 3D printing, and other sectors.

The project began in 2021 at a transition facility in Sanjiao Town, featuring fully equipped clean production workshops at Class 100, 1,000, and 10,000 standards. By July 2022, the LCOS microdisplay module production line was installed, debugged, and began small-scale mass production, with output steadily increasing. The LCOS optical unit assembly line started construction and debugging in August 2022 and is set to commence mass production soon. Once complete, the facility will serve as XDMicro's mass production hub and a center for new technology development, testing, and innovation, adhering to leading domestic and international standards.

"Zhongshan offers a core location within the Guangdong–Hong Kong–Macao Greater Bay Area and a strong foundation for the optoelectronic industry, with excellent access to domestic and international markets," said Dr. Daniel Wong, General Manager of XDMicro. After extensive field visits across China, the company chose Zhongshan for its well-developed upstream and downstream industrial ecosystem. The facility will leverage this cluster and first-mover advantage, strengthen the imaging chip segment of Zhongshan's optoelectronic industry chain, and promote the development of intelligent display technologies.

Following the groundbreaking, Chen Wenfeng, Deputy Secretary of the CPC Zhongshan Municipal Committee and Secretary of the CPC Working Committee of the Torch Development Zone, visited XDMicro's Sanjiao Town transition facility. During a symposium, he encouraged

company leaders to pursue technological innovation and independent patents, enhance core competitiveness, maintain industry leadership, continue investing in Zhongshan, and support high-quality economic development in the Torch Development Zone and the broader city.



Design rendering of XDMicro (Zhongshan) Project Phase I Public Base. Provided by Zhongshan Torch Industrial Group.

“This is a major and joyful milestone for the development of both the Torch Development Zone and Zhongshan’s entire optoelectronic industry. It also marks another significant achievement in the Torch Development Zone’s drive to accelerate project implementation,” said Huang Shengqun, member of the Party Working Committee and Deputy Director of the Torch Development Zone Management Committee, as well as Deputy Secretary of the Party Working Committee and Director of the People’s Street Office. He added that, as a leading enterprise in the optoelectronic semiconductor device industry, the People’s Base Project serves as a key production hub for silicon-based liquid crystal microdisplay chips. Its overall industrial layout aligns closely with the strategic development goals of the Torch Development Zone.