

What kind of factory makes optical modules



Article Overview

Optical modules are manufactured in specialized optoelectronic factories that integrate R&D, design, chip fabrication, packaging, and testing.

Overview of Optical Module Factories

Optical modules, such as transceivers used in data centers, telecommunications, and 5G/6G networks, are produced in highly specialized optoelectronic manufacturing facilities. These factories are not general electronics plants; they focus on optoelectronic integration, combining optical chips, photonic components, and electronic circuits into compact modules. The production process typically includes:

- Chip fabrication: Creating semiconductor lasers, photodiodes, and modulators.
- Optical component assembly: Aligning lenses, waveguides, and fiber connectors.
- PCB integration: Mounting optical chips onto high-speed printed circuit boards.
- Packaging and testing: Hermetic sealing, thermal management, and performance verification under strict quality standards.

Industry Chain Context

Optical module factories sit in the middle of the optical communication industry chain. Upstream suppliers provide optical chips, PCBs, and passive optical components, while downstream customers include data centers, telecom operators, and network equipment manufacturers. Leading factories often maintain vertical in...

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By 2025, its 800G optical module shipments will exceed 5 million units, making it the global "shipment champion" in

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