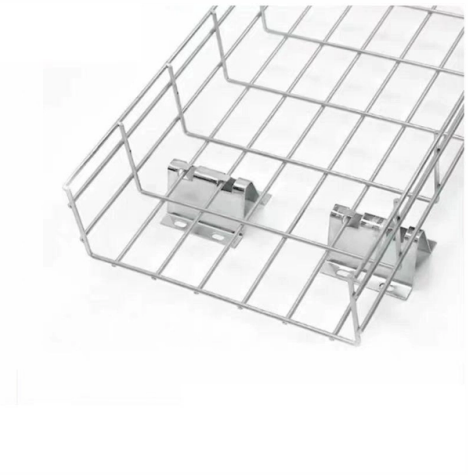
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

The company that supplies the most optical modules to Huawei



Overview

Zhongji Innolight, the world''s leading producer of optical modules, is riding high on the global data center boom.

Key Takeaways

Huawei primarily manufactures its own optical modules but also relies on Chinese suppliers such as InnoLight, Hisense Broadband, Eoptolink, and Accelink to support its supply chain.Huawei's In-House Production

Huawei develops and manufactures its own optical modules, converting electrical signals into optical signals for fiber-optic transmission. These modules include high-density, low-power designs with multiple lanes of 25G, 50G, or 100G per lane, and incorporate proprietary technologies such as co-packaged optics (CPO) and silicon photonics-based modules . Huawei also produces its own optical chips, including lasers, modulators, and photodetectors, which are core components of these modules . This vertical integration allows Huawei to maintain performance, reliability, and supply chain security .

External Suppliers Supporting Huawei

Due to U.S. trade restrictions and challenges in acquiring advanced CMOS technology, Huawei has invested heavily in developing a local supply chain for optical modules and components . Key Chinese suppliers that contribute to Huawei's optical module supply include:

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• InnoLight Technology – a leading Chinese optical module manufacturer, ranked among the top global suppliers .

• Hisense Broadband – provides optical modules and related components .

• Eoptolink – another Chinese supplier supporting Huawei's network equipment .

• Accelink – supplies optical modules and transceivers for telecom and data center applications . These suppliers help Huawei maintain production of high-end products, including coherent DWDM modules, and ensure continuity despite international restrictions .
Summary

Huawei's optical modules are a combination of in-house manufacturing and support from domestic Chinese suppliers. This strategy allows Huawei to produce advanced optical modules for 5G, cloud data centers, and AI-driven networks while mitigating supply chain risks caused by geopolitical constraints .

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Huawei is quietly dominating China''s semiconductor supply chain

Huawei is emerging as the leader of China''s national team in semiconductors, dominating chip manufacturing and

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At MWC Barcelona 2025, Huawei introduced the StarryLink optical modules, aimed at creating a network experience

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The Trump administration explicitly excluded optical transceiver modules when tariffs were put in place last year, and

Key Players Huawei, Ciena, and Nokia Lead the Optical Networking

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