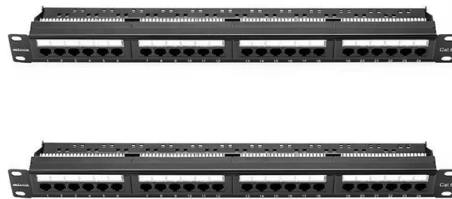


Huawei builds its own optical module factory



AI Overview

Huawei produces a wide range of optical modules through its HISILICON division, supported by domestic chip manufacturing and advanced R&D facilities. Manufacturing Facilities and Technology Huawei's optical module production is anchored by the Wuhan Huawei Optical Factory, its first domestic optical chip factory, covering 208,900 square meters. This facility enables Huawei to produce optical chips independently, without relying on U.S.-origin technology, achieving “comprehensive de-beautification” in its supply chain . The factory initially focused on 45nm chipsets using 28nm lithography, with plans to advance to sub-20nm processes, supporting high-speed optical module production . This capability allows Huawei to manufacture laser chips for photoelectric signal conversion, essential for 5G, IoT, AI, and optical communication networks . HISILICON Optical Module R&D and Production Huawei's HISILICON division (formerly Huawei Integrated Circuit Design Center) is responsible for the R&D and manufacturing of optical modules. HISILICON operates from the Wuhan Research Institute and HISILICON Optoelectronics Co. in the East Lake Hi-Tech Zone, with multiple R&D centers across China, Singapore, South Korea, Japan, and Europe . The company produces a broad range of optical modules, including: Datacom Transceivers for data centers Telecom Transceivers for metro networks FTTx Transceivers for broadband access Wireless Transceivers for mobile networks Transmission Transceivers for long-haul and high-speed optical links Wavelength Management (WSS) modules for multi-dimensional optical switching HISILICON has achieved 100G optical module chip technology and ranks among the top four global optical module suppliers, contributing significantly to global optical communication networks . Product Portfolio Huawei offers a comprehensive range of...

Article Content

Huawei Reportedly Builds 7nm AI Chip Line in First Shot at ...

As the U.S. tightens export controls on NVIDIA's H20 chips, Huawei is stepping up with a broader ambition in semiconductors. According to the Financial Times, the company is swiftly

From self-developed to self-made: Is Huawei HiSilicon wafer factory ...

Digitimes announced at the end of June this year that Huawei has established the first wafer fab in Wuhan and will be put into production in 2022. The initial production will be optical

Huawei building new chip fab in Shenzhen for advanced chip

Three manufacturing sites are currently under construction in the district of Guanlan, having received financial backing from the Shenzhen government, the report claims. Huawei is

HISILICON Optical Module R& D and Manufacturing Entity

After Huawei was included in the "Entity List", it initiated its own substitution, and the first phase of its optical chip factory in East Lake Hi-Tech Zone has long been in mass production, and

VOYAH Builds All-Optical Networks with Huawei

VOYAH Builds All-Optical Networks with Huawei The automobile industry is currently undergoing its biggest technical transformation since the first car was built in 1886. Throughout the relatively young

MLQ.ai | AI for investors

Huawei is constructing an advanced semiconductor production line in Shenzhen, marking its first significant step toward in-house fabrication of high-end 7nm chips for AI and smartphones.

Huawei Secretly Builds A Advanced Chip Factory, Ready To Beat

Huawei's new factory is one clear proof of China's increased chip technology. The country continues to reduce the size of wafers and improve the quality of the fabrication process.

Huawei Strengthens Its Grip Over The Chip Supply

Huawei has managed to take over the chip supply chain in China, as, according to a new report, the firm now operates multiple facilities.

Inside Huawei's Secret Chip Empire: How China's Tech Giant Is

At the heart of this operation is Huawei's own manufacturing site, dedicated to producing 7nm smartphone chips and Ascend AI processors. This facility underscores Huawei's commitment to

Satellite Images Show Huawei's Expanding Chip Production

New satellite confirm how Huawei is scaling up advanced chipmaking in Shenzhen, preparing domestic AI hardware as alternatives to restricted foreign tech.

Huawei's first chipset manufacturing facility completes construction

A report reveals that Huawei's first domestic chip manufacturing factory, called Wuhan Huawei Optical Factory Project (Phase II), has officially completed construction.

Future All-optical Network Architecture and Key Technologies

Evolving towards the 2030 optical communications network system and architecture is a key issue facing the optical communications industry and requires viable technical options for building future

Huawei's first optical chip factory is completed, and the ...

With the completion of the Wuhan Huawei Optical Factory project, this also marks that Huawei has finally completed the entire process from chip R& D and design to manufacturing and

Satellite images reveal that Huawei is rapidly building semiconductor ...

Satellite images have revealed that a Huawei factory built in the Guanlan district of Shenzhen, China, has been undergoing rapid development since construction began in 2022.

Huawei setting up chip factory in China | Sourcengine

Huawei, a leading Chinese conglomerate, is building its first microchip manufacturing facility in Wuhan, China. According to DigiTimes, the corporation's fab will produce optical

Huawei's HiSilicon moving into advanced 5G chip production

Currently, Huawei's Wuhan-based Research Institute has nearly 10,000 research and development personnel that mainly researching and developing optical communication equipment,

Huawei builds semiconductor factory in Shenzhen to localize AI supply ...

Huawei, which is struggling to secure overseas semiconductor technology due to U.S. export restrictions, is reportedly constructing a large-scale factory that can carry out the entire

In Chip Race, China Gives Huawei the Steering Wheel: Huawei's

With a new smartphone and new chip, Huawei has returned to the 5G smartphone business in defiance of U.S. sanctions. CSIS's Gregory C. Allen analyzes the implications from this

Outchipping America: Huawei's Hidden Factory Revealed

Satellite images have revealed Huawei's new advanced chip factory. Rumors suggest it will produce AI chips and smartphone processors in scale.

Huawei wants to build local chip production factory and industry

It was reported that Huawei already has established its first wafer factory in Wuhan and begin production in 2022. Also, the company plans to manufacture the optical communication chip

Wuhan Gearlink Technology Co., Ltd.

WHGearlink Optical Transceivers Compatible With As a professional optical transceiver manufacturer, WHGearlink China optical transceiver will undergo switch compatibility testing before shipment to

Huawei Unveils StarryLink Optical Modules That ...

At MWC Barcelona 2025, Huawei introduced the StarryLink optical modules, aimed at creating a network experience with "3S" quality (Spanning, Stable, Secure). This launch took place

From self-developed to self-made: Is Huawei HiSilicon wafer factory ...

Nowadays, not only the domestic issue of Huawei's chip supply is concerned, but also overseas. Digitimes announced at the end of June this year that Huawei has established the first

Construction of HISILICON's Optical Chip Factory | Weyland

Upon completion, the project will be put into production as Huawei's first domestic chip plant, mainly for Huawei to produce its self-developed optical communication chips and modules.

Striding Towards the Intelligent World White Paper

The all-optical network is widely used in enterprise office and production to build a green and low-carbon office network and a reliable industrial Internet. More and more enterprises are choosing all-optical

Huawei will start manufacturing its own chipset in 2022

It's been circulating for quite a time that Huawei is preparing to build its own chipsets and now, the latest report on this matter shown us the sign of this possibility. Digitimes reports that

Satellite images reveal Huawei's advanced China chip production line

Huawei is building a production line for advanced chips as part of a network of semiconductor facilities in Shenzhen that seeks to break China's dependence on foreign technologies.

Huawei Launches OptiX for Good to Promote the ...

Today, at the Huawei Global Analyst Summit, the launch of the OptiX for Good action plan was announced by Richard Jin, President of Huawei Transmission & Access Product Line. The

What Is StarryLink Optical Module? Why Do We Need It?

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra-long-distance transmission, exceptional reliability, and enhanced security,

Contact Us

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