Huawei Intelligent Optical Transmission Network



Overview

Huawei OptiXtrans DC908 series is a leading intelligent Data Center Interconnect (DCI) product. It provides high scalability to meet the surging capacity demand in the AI era. One-click automatic deployment, smart and proactive O&M based on intelligent algorithms are the key. The OptiXstar product series extends optical connectivity to every home, enterprise, and campus, bringing families closer and making enterprise operations far more efficient. Huawei Sensing OptiX focuses on four aspects — ultra-long-distance comprehensive sensing, precise positioning, high security. High-performance 100G - 800G, single fiber capacity 96T, optical and electrical in one platform, flexible in board dimensions, and smooth evolution to 1T/2T. Performance and efficiency gains – Claimed improvements include 20% longer transmission distance, 20% higher Wi-Fi rates under. Paris, France, October 15, 2025 – During the NetworkX 2025 Next-Generation Optical Networking (NGON) Forum, Huawei introduced its groundbreaking Intelligent OTN solution, positioning it as the cornerstone for future-proof optical transport infrastructure. Gavin Gu, President of Optical Transport. SHANGHAI — Huawei used the second day of Mobile World Congress Shanghai 2026 to unveil ten new AI-Optical Network products at its AI-ON Summit, presenting them as the infrastructure layer that will make a new carrier revenue model — billing for AI inference tokens rather than data gigabytes —. Unveiled At MWC Barcelona 2026, Huawei's next generation of optical transport networks (OTNs) is transforming their role from passive data pipelines into intelligent, integrated platforms, underpinning critical services across power, rail, government and beyond. At MWC Barcelona 2026, Gavin Chen.

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Article Content

Optical Transmission

An intelligent all-optical converged transport platform designed for enterprise production networks, ensuring the secure and reliable transmission of massive

Huawei outlines AI-focused optical roadmap

At MWC Barcelona 2026, Huawei introduced a new set of optical network products and solutions designed to address the growing technical

Huawei released intelligent OTN solution to power the intelligent era ...

To better support DCI and DCA scenarios, Huawei launched the Intelligent OTN solution, focusing on two core directions – “OTN for AI” and “AI for OTN” – with multiple key capabilities.

Huawei Launches 10 Optical Network Products at MWC Shanghai as

Huawei optical network launches at MWC Shanghai 2026 signal a structural shift: ten AI-ON products targeting 50G fiber and 1 ms latency as Chinese carriers redirect capital to AI token

Intelligent infrastructure: How AI is transforming OTNs

Huawei''s AI-powered OTN vision is to transform optical networks from static transport layers into intelligent, adaptive infrastructure for a highly connected world.

Huawei Proposes Building an AI-Centric All-Optical Target Network to ...

Huawei proposed four initiatives to improve network capabilities in terms of bandwidth, reliability, coverage, and latency, helping operators unleash network value while providing the ultimate...

MWC Barcelona 2026: Huawei Shares Vision

Intelligent O&M: Huawei''s all-optical network vision focuses on integrating AI throughout network O&M, including network planning, construction, maintenance, and optimization.

Huawei Launches Next Generation Optical Network Products and

In the optical transmission domain, Huawei has released Next Generation OTN products for OTN backbone, OTN optical layer, and OTN metro networks, helping operators build Agentic

Optical Network Evolution: Huawei''s Cutting-Edge Transmission ...

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This technical deep dive explores how Huawei''s innovations in photonic engineering and multi-service convergence address the critical challenges of hyper-scale data flows ...

Intelligent OptiX Network | OptiX | All-Optical

Huawei''s intelligent OptiX network strategy aims to build intelligent, simplified, ultra-broadband, and ubiquitous next generation all-optical networks.

The Ultimate Guide to Fiberhome OTN Solutions for Long-Haul ...

For long-haul transmission—spanning thousands of kilometers across challenging geographies—the optical transport network (OTN) must transcend mere capacity; it demands intelligent, resilient, and

Meet the fastest in the industry | Empowering evolution

We build advanced networks to support exponential growth in bandwidth demand—empowering our customers, partners, and communities to thrive in the

Future All-optical Network Architecture and Key Technologies

At Huawei, we believe that all-optical network architectures will help make people''s lives more digitalized and intelligent and serve as the connectivity foundation for an intelligent world.

Optical Transmission Network-Green All-Optical Network

Optical Transmission Network— Green All-Optical Network All-optical connectivity is becoming the foundation of the future digital world. Building a T-shape all-optical target network can enable

Huawei Proposes Building an AI-Centric All-Optical

[Barcelona, Spain, March 2, 2026] During MWC Barcelona 2026, Huawei shared its vision for building an AI-centric all-optical target network at the Green All-Optical

Industry Optical WAN

Huawei''s WAN Optical Industry Network uses the latest hard pipe technologies like fgOTN and OSU to develop an all-optical communication solution with ultra broadband that is reliable, simple, and

Huawei''s OptiX OSN 9800 Series Retains "Leader" Position in

In its latest Core & Metro Packet-Optical Transport: Competitive Landscape Assessment, the world-renowned industry analysis firm GlobalData gave Huawei high marks for its flagship optical

Optical Communication Network Solution | Huawei Enterprise

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Huawei electric power optical communication network solution for power transmission and transformation provides secure, stable, and reliable transmission channels for production and

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EU project coordination: Parque das Nações, Lisbon, Portugal

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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