

# Huawei ODN Intelligent Optical Distribution Box



## Overview

0 architecture provides an innovative solution through Hub Boxes and Sub Boxes, enabling fast, simple, and scalable fiber access. □□ Hub Boxes Serve as the first-tier splitter (typically 1:2). Installed at main distribution points (street cabinets). Huawei's ODN 3. 0 solution uses two transformative technologies to support five typical network scenarios. In the earliest FTTH solution, ODN 1. 0 optical splitting was used for. HUAWEI DQ ODN Quickly building a high-quality, visible, and manageable all-optical infrastructure network 2022 HUAWEI DQ ODN Huawei DQ ODN Solution Background In the all-optical network era, most operators consider FTTH as the basis for business success. However, traditional ODN construction faces. Huawei's DQ ODN solution features its "Fiber Iris" technology, uses an intelligent algorithm to identify fiber signals, and displays the ODN topology on the NCE platform. Support. Hub Box Interface: Terminates the feeder cable and provides a pre-connectorized output for 5. Cost-Effective Deployment: Plug-and-play design.



## Article Content

May 09, 2026

ODN/ORP Visualization

The ODN/ORP visualization service is a value-added eSight application for enterprise ODNs/ORPs on PONs. This service is a full-lifecycle network planning, deployment, and maintenance solution

Aug 20, 2025

Huawei DQ ODN Awarded Intelligent Fibre Deployment

Thanks to innovations in accelerating optical distribution network (ODN) deployment as well as visualized and digital resource management,

Jul 11, 2025

Network Digital Intelligence Transformation ODN is

To address these challenges, Huawei released the QuickODN solution to help operators efficiently plan and quickly deploy FTTH, and implement digital O& M for

Mar 14, 2026

Huawei Shows Intelligent Optical Distribution Network

Huawei previewed an Intelligent Optical Distribution Network (iODN) prototype that aims to help network operators automatically locate and operate target optical fibers in large scale FTTH

Jul 26, 2025

Huawei introduces Intelligent Optical Distribution Network prototype ...

OCTOBER 18, 2010 - Huawei has introduced its Intelligent Optical Distribution Network (iODN) prototype, offering multiple intelligence functions, enabling operators to automatically locate

Jun 12, 2026

Striding Towards the Intelligent World White Paper

The optical sensing technology can also be used in a wide range of scenarios such as fire and earthquake warning to explore new services and applications and maximize the value of fiber

Mar 27, 2026

Plug-and-Play FTTH ODN Solution Compatible with

This refers to a distribution cable that is pre-terminated with fiber optic connectors at both ends. Designed for rapid deployment, it enables fast and

Apr 20, 2026

Joint iODN innovation drives FTTH development

Learn how Huawei's floor distribution box (FDB) and pre-connection solutions for ODN have aided Rostelecom and Telefonica FTTx efforts.

Aug 21, 2025

Ubiquitous Fiber Networks with Huawei ODN 3.0

With Huawei's core concept for ODN construction centering on full and dense coverage coupled with short and easy access, Huawei's ODN 3.0 solution uses

Dec 21, 2025

HUAWEI DQ ODN Solution: All-Optical Infrastructure

Explore the HUAWEI DQ ODN solution for building high-quality, manageable all-optical networks. Learn about its features, benefits, and applications.

Nov 20, 2025

Huawei intros indoor/outdoor ONT as part of intelligent fiber ...

As reported by Lightwave's Stephen Hardy, Huawei unveiled its HG8240 Optical Network Terminal (ONT) and its Intelligent Optical Distribution Network (iODN) concept at the recent FTTH Conference

Apr 29, 2026

Huawei FTTH Solution

Huawei Electric Power FTTH Network Solution Huawei electric power FTTH network solution uses all-scenario AirPON and DQ ODN solutions to simplify OLT and

Feb 14, 2026

Optical Transmission

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

Feb 02, 2026

Huawei Odn Closure Sc IP68 16 Ports Pre-Connectorized Fat Huawei Hub Box

Fiber Splitter Distribution Box, also known as Fiber Distribution Box, provides fiber optic cable management for connection of distribution cables and drop cables via the PLC Splitter Insertion

May 19, 2026

ODN/ORP Visualization

Manages pre-connected ODNs/ORPs, such as Hub Box, Sub Box, and End Box. ODN/ORP device resource information can be calibrated on the cloud.

Jan 24, 2026

Huawei: Huawei Digital Quick ODN Solution (DQ ODN)

This solution implements precise planning, fast deployment of optical broadband networks, and precise fault locating and rectification, revolutionizing the traditional

Oct 01, 2025

Huawei DQ ODN: Efficient FTTH Solutions | PDF | Fiber

Traditional ODN network deployment requires more than 10 complex tools, while the DQ ODN solution requires only five simple tools, which facilitates installation and

May 24, 2026

Huawei DQ ODN: Efficient FTTH Solutions | PDF | Fiber

HUAWEI DQ ODN Quickly building a high-quality, visible, and manageable all-optical infrastructure network 2024 fHUAWEI DQ ODN Huawei DQ ODN Solution

Jul 02, 2025

Huawei ODN Solution Introduction PDF | PDF | Fiber To

ODN Solution Introduction Content 1 ODN Overview 2 Huawei ODN Fast Connection Solution 3 Key Features 1 fODN Architecture ODN is the optical distribution

Apr 21, 2026

Huawei Announces World's First Intelligent Optical Distribution

Huawei today announced the world's first Intelligent Optical Distribution Network (iODN) prototype. Huawei's iODN offers multiple intelligence functions and enables operators to

Oct 06, 2025

454022781-ODN-Planning-and-Design-Suggestions

This document provides guidance on optical distribution network (ODN) design for fiber-to-the-home (FTTH) deployments. It discusses ODN topology design

Sep 29, 2025

Fiber access terminal (FAT)

Fiber access terminal (FAT) The FAT2808 series adopts the FastConnect technology, which makes FTTH deployment and maintenance efficient and

Jun 16, 2026

China Mobile Sichuan and Huawei Jointly Build an Industry-Innovated DQ ODN

Solution uses the innovative optical path technology to achieve visualized management of ODN resources and build a highly automated and intelligent all-optical network infrastructure.

Sep 06, 2025

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Huawei DQ ODN Named Leading Innovation by IDATE DigiWord SHENZHEN - The ODN: Market Driven by Innovation report released by IDATE DigiWorld rated the Huawei DQ ODN as a leading

Dec 22, 2025

Huawei: Huawei Digital Quick ODN Solution (DQ ODN)

Huawei's DQ ODN solution features its "Fiber Iris" technology, uses an intelligent algorithm to identify fiber signals, and displays the ODN topology on the NCE

Apr 26, 2026

Huawei ODN 3.0: Fast, Simple, Scalable Fiber Access

Huawei's ODN 3.0 architecture provides an innovative solution through Hub Boxes and Sub Boxes, enabling fast, simple, and scalable fiber access. □□ Hub Boxes Serve as the first-tier...

## Contact Us

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