# Japan s 400G Active Optical Devices for Cloud Computing



## Overview

has partnered with Cisco Systems to begin deploying an “All Optical Network” across metro networks in Japan. The project eliminates the need for optical-electrical conversion, cutting energy consumption by about 90% while delivering large-capacity, 400G-class. SoftBank Corp. Within the modules at both ends of the cable, optical transmitters and receivers are integrated: the transmitter converts electrical signals into optical signals for transmission. 400G Ethernet AOC cables offer strong signal integrity and flexible cabling characteristics, meeting the comprehensive requirements of hyperscale data centers, high-performance computing (HPC), and AI training clusters in terms of bandwidth, latency, and link stability. This article provides a. SoftBank Corp. The first phase was. The IOWN Network Solution (400G) (hereinafter, The Solution) combines the IOWN-related technologies of NTT Corporation (NTT) and those of IP Infusion Inc. (IP Infusion) (1), a leading software company in the United States, to realize high-speed, high-capacity, and low-power consumption.

*© 2026 EXF OPTICAL NETWORKS - All rights reserved*

## Article Content

A Deep Dive into NADDOD 400G Ethernet Active Optical Cable (AOC)

400G Ethernet AOC cables offer strong signal integrity and flexible cabling characteristics, meeting the comprehensive requirements of hyperscale data centers, high

A Deep Dive into NADDOD 400G Ethernet Active Optical Cable (AOC)

Cloud computing platforms process massive volumes of data and support highly concurrent service access, placing higher demands on network transmission capability and stability.

SoftBank Corp. Collaborates with Cisco to Launch "All optical network ...

By introducing Cisco''s latest routers that support 400GbE (Gigabit Ethernet) and adopting a simplified architecture optimized for metro networks, the system enables a large-capacity network

SoftBank Expands All-Optical Nationwide with Cisco 400G

SoftBank Corp. has partnered with Cisco Systems to begin deploying an “All Optical Network” across metro networks in Japan. The project eliminates

Making long-haul large-capacity 400G optical network a reality

In this Review, we describe the key technologies necessary for long-haul large-capacity 400G optical transmission. First, we determine that the quadrature phase-shift keying format is...

SoftBank Corp. Collaborates with Cisco to Launch

By equipping IP routers with Cisco 400G coherent *5 optical transceivers "OpenZR+” *6, which enables long distances, high-capacity optical

Japan – Launch of IOWN Network Solution for 400Gbps

With this solution, customers such as data center operators and telecommunication carriers can construct simple and lower cost inter-data center

SoftBank, Cisco launch energy-saving optical network in Japan

SoftBank says its metro networks cut energy use by 90% by removing optical-electrical conversion and using Cisco''s 400G coherent transceivers. It gives no counts for upgraded sites,

Optical Transceivers (400G) Market in Japan | Report

*© 2026 EXF OPTICAL NETWORKS - All rights reserved*

The Japanese market for 400G optical transceivers stands at a critical inflection point, driven by an insatiable demand for data bandwidth and a national imperative to modernize digital infrastructure.

Exploring 400G QSFP-DD AOC: Understanding Active

Explore the world of 400G QSFP-DD AOC technology for data centers. Learn about active optical cables, Ethernet applications, and MSA

How 400G Optical Transceivers Are Reshaping Data Center

Explore how 400G optical transceivers are transforming data centers in 2025. Learn about standards, architectures, and LINK-PP''s high-performance 400G solutions.

The Evolving Landscape of AI Optical Modules 400G

Naddod AI Computing 400G & 800G Optical Modules With the growing demand for high-speed data communication, leading optical connectivity

Japan 400G and 800G Optical Transceivers Market Size 2026

How will the rapid adoption of AI-driven data centers and cloud infrastructure in Japan influence the demand trajectory for 400G and 800G optical transceivers, and what strategic implications does ...

Understanding the 400G ZR: A Revolutionary Coherent

Discover the 400G ZR transceiver module, a cutting-edge coherent optical solution designed for 400Gb Ethernet transport over long DCI links with

Optical Modules for AI Computing: Naddod''s

Discover the increasing demand for optical modules in AI computing and the role they play in supporting high-speed data transmission. Learn about

400G Transceivers: The Future of High-Speed Networking

Explore the key features and applications of 400G transceivers. Learn how these optical modules enhance data center performance and discover if they are the right choice for your network.

NADDOD 400G/800G Optical Module Boosts AI

Explore the NADDOD 400G/800G optical modules that are driving the acceleration of AI computing power. Learn about the increasing demand for high-speed

Optical Technologies for Optical Quantum Computing

Measurement-based quantum computing *2 is a very interesting computational method. However, we focus on the technology required for

*© 2026 EXF OPTICAL NETWORKS - All rights reserved*

## Contact Us

Continue your research online:

Website: https://explosivefunctions.co.za
Technical inquiry: https://explosivefunctions.co.za/contact.html
EU project coordination: Parque das Nações, Lisbon, Portugal

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

© 2026 EXF OPTICAL NETWORKS - All rights reserved