

# India Active Optical Devices 400G



## Article Overview

India's 400G active optical device market is rapidly expanding, driven by hyperscale data centers, 5G rollout, and metro network upgrades, with QSFP-DD and OSFP form factors dominating deployments.

### Market Overview

The India 400G optical transceiver market is transitioning from early adoption to mainstream deployment, fueled by growing data traffic, cloud migration, and government-backed digital infrastructure initiatives . Major metropolitan hubs such as Mumbai, Chennai, and the National Capital Region host the largest clusters of hyperscale data centers, while tier-2 cities are emerging as secondary demand centers due to edge data center construction . Domestic manufacturing is being incentivized under production-linked schemes, but imports still satisfy a significant portion of demand .

### Device Types and Form Factors

400G active optical devices include optical transceivers and active optical cables (AOCs). Key form factors in India are:

- QSFP-DD: High-density, power-efficient, supports future speed upgrades .
- OSFP: Offers similar high-speed performance with slightly larger form factor for thermal management . Active Optical Cables (AOCs) integrate electro-optical conversion modules, converting electrical signals to optical signals and back, enabling short- to mid-reach interconnections (1-100 meters) within racks or betwe...

## Article Content

Active Optical Cables | Lightwave Online

400G QSFP112 AOC Fast Photonics 400G QSFP112 Active Optical Cables (AOC) are designed for 400 Gigabit Ethernet links on up

400g Ospf Aoc Cable Ospf To Ospf Active Optical Cable Om3 Multimode

High-performance 400G OSFP Active Optical Cable designed for next-generation data centers, AI clusters, and high-density

Active Optical Cables AOC

High-performance 400G OSFP Active Optical Cable designed for next-generation data centers, AI clusters,

400G QSFP DD Active Optical Cable (AOC)

400GB/S QSFP DD ACTIVE OPTICAL CABLE COMPLIANT TO 26.5625GBD PAM4 MODULATION Amphenol's QSFP DD to

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

Long-haul large-capacity 400G optical transmission over 1,500 km is possible through advanced fibre-optic systems.

Global 400G Optical Module Market Size, Share & Industry Forecast

400G Optical Module Market size was valued at USD 1.5 billion in 2025 & is estimated to reach USD 5.2 billion by

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

Discover NADDOD 400G Ethernet AOC cable solutions, including OSFP to QSFP-DD and breakout options,

Global 400G Optical Module Market Growth 2025-2031

400G Optical Module Market projected to hit USD \$ million in 2025, growing at a \$% CAGR. Explore in-depth industry size, share,

Optical Active Device Market Report | In-Depth Analysis 2035

Optical Active Device Market Application Insights The Global Optical Active Device Market is witnessing robust growth across

Professional Active Optical Cable (AOC) Manufacturer

High-performance optical module solutions help upgrade network infrastructure As a professional optical

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

400G Ethernet AOC Cable Introduction Active Optical Cable (AOC) is a high-speed interconnect cable with integrated

Active Optical Cables AOC SFP QSFP 10G 25G 100G

Pivotal Optics AOC cables deliver 10G-400G fiber performance up to 50m with low power draw and zero

Global Active Optical Devices Market Size, Industry Share, Trends ...

High-growth micro-segments such as coherent optical modules for 400G+ data center interconnects. Emerging

Exploring 400G QSFP-DD AOC: Understanding Active

Explore the world of 400G QSFP-DD AOC technology for data centers. Learn about active

400G Active Optical Cable | For AI and HPC RoCE Ethernet

A 400G Active Optical Cable (AOC) is a pre-assembled, plug-and-play cable assembly used to support 400 Gigabit Ethernet data

Molex unveils 100G, 400G optical transceivers

As part of a broader upgrade of its interconnect portfolio, Molex has introduced new 100G and 400G optical

Optical Transceivers (400G) Market in India | Report

The India 400G optical transceiver market stands at a critical inflection point, transitioning from early adoption to

Global 400G Optical Transceiver Market Size, Growth Trends

400G Optical Transceiver Market Dynamics 2026-2033 The 400G optical transceiver market is characterized by a

Active Optical Cable, 400G QSFP-DD AOC, 200G

Active Optical Cable (AOC) is a high-speed data transmission solution that integrates optical modules and

Aoc Cable | JTOPTICS

400G Aoc Cable Qsfp-Dd To Qsfp-Dd Active Optical Cable Om3 Multimode JTOPTICS®  
400G QSFP-DD AOC (active optical cable)

Global Optical Active Device Chip Market Size, Growth Analysis,

Optical Active Device Chip Market size was valued at USD 3.21 billion in 2025 & is estimated to reach USD 5.67

Global 400G Optical Module Supply, Demand and Key Producers,

The global 400G Optical Module market size is expected to reach \$ million by 2030, rising at a market growth of %

Cisco 400G QSFP-DD Cable and Transceiver Modules

Active optical cables are much thinner and lighter than copper cables, which makes cable

Global Optical Active Device Market Size, Share, Growth Trends ...

Optical Active Device Market size was valued at USD 7.5 billion in 2025 & is estimated to reach USD 12.2 billion by

Professional Active Optical Cable (AOC) Manufacturer

These AOC products support full-line rate levels from 10G to 400G, and provide multiple length options

Optical Transceivers (400G) Market in India | Report

This report provides an in-depth analysis of the Optical Transceivers (400G) market in India, including market size,

400G Optical Transceiver Modules | Broadex Technologies

Broadex Technologies' high performance and cost effective 400G Optical Transceiver Modules are built utilizing our innovative COB

PSE 100G/400G pluggable coherent optics

Our 400G pluggable DCOs are powered by the PSE-V Compact (PSE-Vc), part of the PSE-V family of

400G Coherent Optical Devices: Architecture, Applications & Trends

Explore the architecture, key technologies, applications, and future trends of 400G coherent optical devices in modern

Active Optical Module Market Research Report 2034

Active Optical Module market valued at \$10.7 billion in 2025, projected to reach \$35.6 billion by 2034 at 14.2% CAGR, driven by data

Active Optical Cable 400G Market Research Report 2033

According to our latest research, the Global Active Optical Cable 400G market size was valued at \$1.2 billion in 2024

## Contact Us

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