

Intel Optical Module Teardown



Overview

Based on a complete teardown analysis of the RealSense D435, the report provides high definition pictures of the vision processor, VCSEL IR projector and image sensor dies as well as the bill-of-material (BOM) and the manufacturing cost of the depth module. This is an AMC Optics module that is coded for Juniper as a JNP part number. It is also a QSFP28 connector on the other end so it fits into the same slot as the 100G QSFP28 DAC we showed previously. It combines a conventional red/green/blue (RGB) color sensor, a vertical-cavity surface-emitting laser (VCSEL) projector and left- and right-side. This article will focus on the internals of the optical transceiver including the TOSA, ROSA and BOSA, and PCBA. Optical modules are devices used to connect network devices, transmit. Intel WiFi 6E AX210 Module Internal Photo rev 01 details for FCC ID PD9AX210NG made by Intel Corporation. They are compliant with the QSFP+ MSA and IEEE 802. 3ba 40GBASE-SR4 and breakout to four 10GBASE-SR. I recently had the pleasure of working with Lumenci, and I their technical patent. After last week's Going 800Gbps at up to 1000km with the Marvell COLORZ 800 piece, some folks may have seen that we also took apart a 100G QSFP28 DAC and a 100G SR4 QSFP28 optical module. We thought it would be worth showing folks what is inside the modules so this article is going to show what is.



Article Content

May 18, 2026

Inside a 100G SR4 QSFP28 Module A Quick Teardown

We take apart a 100G SR4 QSFP28 module so you can see what goes inside these extremely common optical modules

Jun 24, 2026

Intel 100G PSM4 QFSO28 Transceiver

In a very small form factor, Intel manages to integrate four lasers, a photonic driver, optical modules, CDR functionality, high performance photodiodes, two advanced substrates and materials for optics.

Jan 26, 2026

The Internal Components and Structure of The Optical Transceiver

The optical module is a very important component in an optical communication system. This article will introduce you to the internal components and structure of the optical module.

Apr 30, 2026

Inside a 100G QSFP28 DAC A Quick Teardown

We open up a 100G QSFP28 DAC housing to see what is inside and show you the difference between this DAC and an optical module

Mar 20, 2026

100G SR4 QSFP28 Optical Module Teardown 6

ServeTheHome is the IT professional's guide to servers, storage, networking, and high-end workstation hardware, plus great open source projects.

Aug 18, 2025

AX210NG Intel WiFi 6E AX210 Module Teardown Internal Photos ...

Intel WiFi 6E AX210 Module Internal Photo rev 01 details for FCC ID PD9AX210NG made by Intel Corporation. Document Includes Internal Photos PowerPoint Presentation.

Jan 04, 2026

Intel Silicon Photonic 100G CWDM4

This report is an exhaustive analysis of the main components of the Intel 100G CWDM4 connector, including a full analysis of the Silicon Photonic die, the TIA circuit, the Mach-Zehnder Driver circuit, ...

Mar 11, 2026

Finisar QSFP Optical Transceiver | Teardown Report | Lumenci

FTL410QE4C QSFP+ optical transceivers are designed for use in 40 Gigabit per second links over multimode fiber. They are compliant with the QSFP+ MSA and IEEE 802.3ba 40GBASE-SR4 and ...

May 23, 2026

220809 Intel WiFi 6E AX210 Module Teardown Internal Photos ...

Intel WiFi 6E AX210 Module Internal Photos details for FCC ID XHM-220809 made by FLYTECH TECHNOLOGY CO., LTD. Document Includes Internal Photos Internal Photos.

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