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ICS 33.180.01
CCS M33

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4859.2-2025

Single channel active optical cable transceiver - Part 2: 50Gb/s AOC

单通道有源光缆光模块 第2部分：50Gb/s AOC

(English Translation)

Issued on: July 2, 2025 **Implemented on: November 1, 2025**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4859-2-2025

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1 Foreword

YD/T 4859.2-2025 was issued by Ministry of Industry and Information Technology on 2 July 2025 and has been in force since 1 November 2025.

It is one of 3 parts of the YD/T 4859 series.

The YD/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

2 Scope Preview

This standard specifies the terms and definitions, abbreviations, and classifications of 50Gb/s AOCs, including transmission cable characteristics, operating conditions, electrical characteristics, power consumption, packaging form, dimensions and lead-out arrangement, appearance, and environmental compliance. It describes the corresponding test methods and specifies inspection rules, marking, packaging, transportation, and storage. This standard applies to the design, development, production, and inspection of 50Gb/s single-channel active optical modules in data center and other application scenarios.

YD/T 4859.2-2025 falls under ICS 33.180.01, in the field of telecommunications.

This catalogue holds 3,420 other YD/T standards in that field.

In this catalogue, YD/T standards carry edition years from 1982 to 2026.

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3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Other parts of this standard:

YD/T 4859.1-2024 - Single Channel Active Optical Cable Module - Part 1: 25Gb/s AOC

YD/T 4859.3-2026 - Part 3: 100Gb/s AOC

Standards on related subjects:

YD/T 2554.1-2013 - Plastic optical fiber connector - Part 1: Type LC

GB/T 9771.1-2008 - Single-mode optical fibres for telecommunication -- Part 1: Characteristics of a dispersion unshifted single-mode optical fibre

GB/T 18480-2001 - Specification for submarine optical fiber cables

YD/T 4844-2024 - Synchronous Network Terms and Definitions

5 Classification and status

International classification (ICS): 33.180.01

Chinese Standard Classification (CCS): M 33

Prefix YD/T: recommended standard.

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