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ICS 33.060
CCS M30

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 2759.5-2025

Single fiber Bi-Directional (BiDi) optical transceiver module - Part 5: 50Gb/s wavelength self-tuning

单纤双向光收发合一模块 第5部分：50Gb/s波长自调谐

(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-2759-5-2025

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1 Foreword

YD/T 2759.5-2025 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 5 parts of the YD/T 2759 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 specifications for 50Gb/s wavelength self-tuning single-fiber bidirectional optical transceiver modules. This standard specifies the technical requirements, test methods, reliability tests, electromagnetic compatibility tests, inspection rules, marking, packaging, transportation, and storage requirements for self-tuned BiDi optical modules. This standard applies to the research, development, production, and testing of 50G four-level pulse amplitude modulation (PAM4) self-tuned single-fiber bidirectional optical transceiver modules.

YD/T 2759.5-2025 falls under ICS 33.060, 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 2759-2014 - 10Gbit/s single fiber bidirectional optical transceiver module

YD/T 2759.2-2020 - Single fiber bidirectional optical transceiver module - Part 2: 25Gb/s

YD/T 2759.3-2021 - Single fiber first optical transceiver module 3 parts: 50Gb/s

YD/T 2759.4-2023 - Single-fiber bidirectional optical transceiver module - Part 4: 100Gb/s

Standards on related subjects:

YD/T 3594-2019 - General technical requirements of Security for Vehicular Communication based on LTE

5 Classification and status

International classification (ICS): 33.060

Chinese Standard Classification (CCS): M 30

Prefix YD/T: recommended standard.

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