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ICS 33.040.20
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YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4856-2024

Technical requirements for optical transport network (OTN) equipment based on optical service unit (OSU)

基于光业务单元（OSU）的光传送网（OTN）设备技术要求

(English Translation)

Issued on: July 5, 2024 **Implemented on: October 1, 2024**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4856-2024

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1 Foreword

YD/T 4856-2024 was issued by Ministry of Industry and Information Technology on 5 July 2024 and has been in force since 1 October 2024.

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.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies the technical requirements for optical transport network (OTN) equipment based on optical service units (OSUs), including network positioning, equipment functional models, node functional requirements, interface adaptation requirements, mapping multiplexing requirements, synchronization requirements, performance requirements, protection requirements, physical characteristics requirements, network element management requirements, etc. This standard is applicable to the development, production, testing and network design of OTN equipment based on OSUs.

YD/T 4856-2024 falls under ICS 33.040.20, 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

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 4859.3-2026 - Single channel active optical cable transceiver - Part 3: 100Gb/s AOC

YD/T 4859.2-2025 - Single channel active optical cable transceiver - Part 2: 50Gb/s AOC

YD/T 4846-2024 - Enhanced Synchronous Ethernet Device Clock Test Method

5 Classification and status

International classification (ICS): 33.040.20

Chinese Standard Classification (CCS): M 33

Prefix YD/T: recommended standard.

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