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ICS 33.040.20
CCS M33

YD

# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# YD/T 4855-2024

## Optical Service Unit (OSU) Technical Requirements

光业务单元（OSU）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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## 1 Foreword

YD/T 4855-2024 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 service units (OSUs) in optical transport networks (OTN), including OSU network architecture, OSU functional structure, OSU bit rate, client signal mapping to OSU, OSU multiplexing, OSU lossless bandwidth adjustment, OSU protection and OSU clock synchronization. This standard applies to the design, development, production and testing of OTN networks supporting OSU.

YD/T 4855-2024 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 4845-2024 - Technical requirements for 100ns-level high-precision time synchronization

## 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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