Chinastandards.org

ICS 33.040
CCS M30

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6439-2025

Technical requirements for fine grain Optical Transport Network (fgOTN)

细粒度光传送网（fgOTN）技术要求

(English Translation)

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

Issued by: Ministry of Industry and Information Technology

Preview: page 1 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-6439-2025

Chinastandards.org

Table of Contents

[Preview only]
1 Scope
2 Normative references
3 Abbreviations
3.1 Terms and definitions
4 General
4.1 Test environment
4.2 UE Information
4.3 Test Implementation
5 Technical requirements

1 Foreword

YD/T 6439-2025 was issued by Ministry of Industry and Information Technology on 2 July 2025 and has been in force since 1 November 2025.

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 functional and performance requirements of fine-grained optical transport network (fgOTN) equipment, including network architecture, functional structure, bit rate, customer signal mapping, multiplexing, lossless bandwidth adjustment, protection, clock synchronization, etc. This standard applies to the development and testing of fgOTN systems and equipment, as well as the operation and maintenance of fgOTN networks.

YD/T 6439-2025 falls under ICS 33.040, 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.

Preview: page 2 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-6439-2025

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 3710-2020 - Test methods of message layer of LTE-based vehicular communication

YD/T 6447-2025 - Scenes and requirements of information telecommunication generic cabling system - Distributed building campus

YD/T 6440-2025 - General technical requirements of digital twin for Optical Transport Network (OTN)

5 Classification and status

International classification (ICS): 33.040

Chinese Standard Classification (CCS): M 30

Prefix YD/T: recommended standard.

Preview: page 3 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-6439-2025