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ICS 33.180.01
CCS M33

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6442-2025

Technical requirements for broadband customer networking based on public telecommunication network - Fiber-to-the-room (FTTR)- Network management

基于公用电信网的宽带客户网络联网技术要求 光纤到房间 管理

(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-6442-2025

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1 Foreword

YD/T 6442-2025 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 network management requirements for Fiber to the Room (FTTR), including basic architecture, interfaces, and control protocols. This standard applies to the design, development, and management of FTTR networks based on public telecommunications networks, including implementation in home and enterprise user scenarios.

YD/T 6442-2025 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

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 1114-2026 - Halogen-free flame retardant optical fibre cable

YD/T 6450-2025 - Intelligent optical distribution network adapter dust plug

YD/T 6449-2025 - Reliability test method for non-hermetic optoelectronic devices used in communications

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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