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ICS 33.040.50
CCS M42

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4300.3-2023

Access network technical requirements 50Gbit/s Passive Optical Network (50G-PON) - Part 3: Transmission Convergence (TC) layer requirements

接入网技术要求 50Gbit/s无源光网络（50G-PON） 第3部分：传输汇聚（TC）层要求

(English Translation)

Issued on: July 28, 2023 **Implemented on: November 1, 2023**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4300-3-2023

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1 Foreword

YD/T 4300.3-2023 was issued by Ministry of Industry and Information Technology on 28 July 2023 and has been in force since 1 November 2023.

It is one of 3 parts of the YD/T 4300 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 transmission convergence (TC) layer protocol, resource allocation and quality of service, TC framing sublayer, encapsulation method, TC physical adaptation sublayer, and physical layer operation management and maintenance (PLOAM) of 50Gbit/s passive optical networks. Message channel, optical network unit (ONU) activation cycle, optical line terminal (OLT) and ONU timing relationship, performance management, supervision and fault, security and power consumption management, etc. This standard applies to the development, production and testing of 50G-PON equipment in the public telecommunications network environment. Private telecommunications networks can also be used as a reference.

YD/T 4300.3-2023 falls under ICS 33.040.50, in the field of telecommunications.

This catalogue holds 3,420 other YD/T standards in that field.

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In this catalogue, YD/T standards carry edition years from 1982 to 2026.

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 4300.1-2023 - Access Network Technical Requirements 50Gbit/s Passive Optical Network - Part 1: General Requirements

YD/T 4300.2-2023 - Part 2: Physical Media Dependent (PMD) layer requirements

Standards on related subjects:

YD/T 1092-2023 - Telecommunication cables - Foamed polyolefin dielectric, corrugated copper-tube outer conductor, 50 Ohm radio-frequency coaxial cable for wireless communications

YD/T 2165-2010 - Technical specification of modular uninterruptible power systems for telecommunications

YD/T 841-1996 - Underground communication pipe with plastic pipe

YD/T 4304-2023 - Single pair twisted pair cable for digital communication

5 Classification and status

International classification (ICS): 33.040.50

Chinese Standard Classification (CCS): M 42

Prefix YD/T: recommended standard.

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