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ICS 33.040.50
CCS M42

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4300.2-2023

Access network technical requirements 50Gbit/s Passive Optical Network (50G-PON) - Part 2: Physical Media Dependent (PMD) layer requirements

接入网技术要求 50Gbit/s无源光网络（50G-PON） 第2部分：物理媒质相关（PMD）层要求

(English Translation)

Issued on: December 20, 2023 **Implemented on: April 1, 2024**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4300-2-2023

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1 Foreword

YD/T 4300.2-2023 was issued by Ministry of Industry and Information Technology on 20 December 2023 and has been in force since 1 April 2024.

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 physical medium dependent (PMD) layer requirements of the 50Gbit/s Passive Optical Network (50G-PON) system, the X/S tolerance of ONUs and OLTs, and the uplink physical layer overhead. This standard applies to 50G-PON equipment in public telecommunications network environments, and private telecommunications networks can also be used as a reference. It mainly focuses on networks with business bandwidth requirements ranging from voice traffic to 50Gbit/s data services, including broadcast services.

YD/T 4300.2-2023 falls under ICS 33.040.50, 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

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 4300.3-2023 - Part 3: Transmission Convergence (TC) 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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