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ICS 33.180.01
CCS M33

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4443-2023

Industrial Internet networking technologies Passive optical network (PON) equipment technical requirements

工业互联网联网用技术 无源光网络（PON）设备技术要求

(English Translation)

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

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 4443-2023 was issued by Ministry of Industry and Information Technology on 28 July 2023 and has been in force since 1 November 2023.

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 equipment technical requirements for passive optical networks (PON), the technology used for industrial Internet networking, including overall equipment requirements, physical interface requirements, network function requirements, industrial protocol adaptation capability requirements, security capabilities, operation, maintenance and management functions, etc. This standard applies to the design, R&D and production of passive optical network equipment in industrial Internet scenarios, including industrial PON equipment based on Ethernet Passive Optical Network (EPON) and Gigabit Passive Optical Network (GPON) technology systems.

YD/T 4443-2023 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 4446-2023 - Sliced Packet Network (SPN) device testing methods

YD/T 4445-2023 - Enhanced Reference Master Time (ePRTC) Equipment Technical Requirements

YD/T 4444-2023 - 5G small base station network management system southbound interface data model

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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