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ICS 33.040.20
CCS M33

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4504-2023

Ultra-high precision time synchronization interface requirements

超高精度时间同步接口要求

(English Translation)

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

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 4504-2023 was issued by Ministry of Industry and Information Technology on 20 December 2023 and has been in force since 1 April 2024.

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 basic functions, encapsulation processing, protocol mode, protocol fields, optimal master clock algorithm of the ultra-high-precision PTP interface, the physical interface requirements of the 1PPS output interface, pulse-per-second requirements, etc. This standard applies to the research and development, testing and application of time synchronization equipment, transmission bearer equipment and synchronization networks with ultra-high-precision time synchronization interfaces.

YD/T 4504-2023 falls under ICS 33.040.20, 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 4506-2023 - Technical requirements for access optical transport network (OTN) equipment management and control

YD/T 4505-2023 - Enhanced synchronization device slave clock technical requirements

YD/T 4498-2023 - Industrial Internet networking technologies Passive optical network (PON) network testing methods

5 Classification and status

International classification (ICS): 33.040.20

Chinese Standard Classification (CCS): M 33

Prefix YD/T: recommended standard.

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