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ICS 33.040.20
CCS M33

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4845-2024

Technical requirements for 100ns-level high-precision time synchronization

100ns量级高精度时间同步技术要求

(English Translation)

Issued on: July 5, 2024 **Implemented on: October 1, 2024**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4845-2024

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1 Foreword

YD/T 4845-2024 was issued by Ministry of Industry and Information Technology on 5 July 2024 and has been in force since 1 October 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 technical requirements for 100ns time synchronization, including networking requirements, performance requirements, transmission technology, interface requirements, reliability requirements and basic requirements for related equipment. This standard applies to the planning, construction and maintenance of 100ns time synchronization networks using the Precision Time Protocol (PTP) technology for ground transmission.

YD/T 4845-2024 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 4848-2024 - Access network operation and maintenance intelligent technology requires data collection and common data model

YD/T 4846-2024 - Enhanced Synchronous Ethernet Device Clock Test Method

YD/T 4844-2024 - Synchronous Network Terms and Definitions

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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