Chinastandards.org

ICS 33.060.20
CCS M36

YD

# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# YD/T 4294-2023

## Nanosecond GNSS Relative Timing Technical Requirements and Test Methods

纳秒级GNSS相对授时技术要求和测试方法

**(English Translation)**

**Issued on: April 21, 2023** **Implemented on: August 1, 2023**

**Issued by: Ministry of Industry and Information Technology**

Preview: page 1 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-4294-2023

# Table of Contents

[Preview only]
1 Scope
2 Normative references
3 Abbreviations
3.1 Terms and definitions
4 General
4.1 Test environment
4.2 UE Information
4.3 Test Implementation
5 Technical requirements

## 1 Foreword

YD/T 4294-2023 was issued by Ministry of Industry and Information Technology on 21 April 2023 and has been in force since 1 August 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 technical requirements and test methods for realizing nanosecond-level relative timing based on GNSS one-way timing and GNSS neighborhood similarity technologies, including the interface requirements, functional requirements, performance requirements and related tests of nanosecond-level GNSS relative timing technology. method. This standard is applicable to the research and development, design, production and testing of 5G positioning base stations and other equipment that require nanosecond-level timing and synchronization accuracy. Its system equipment form can be provided as a standalone device/system, or it can be embedded as a high-precision time synchronization module. used in specific systems.

YD/T 4294-2023 falls under ICS 33.060.20, in the field of telecommunications.

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



Preview: page 2 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-4294-2023

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

Standards on related subjects:

YD/T 3711-2020 - Technical requirement of IMS based vehicle eCall system based on public telecommunication network

GB/T 32401-2015 - Technical requirements and measurement methods for VHF/UHF frequency

GB/T 12572-2008 - Universal requirements and measurement methods of parameters for radio transmitting equipment

YD/T 4284.2-2024 - 5G Mobile Communication Network - Technical requirements for non-3GPP access networks to access the 5G core network - Part 2: EMS-NMS interface functions

YD/T 4285-2023 - 5G mobile communication network Intelligent network data analysis (NWDA) general technical requirements

YD/T 4284.1-2023 - 5G mobile communication network Technical requirements for non-3GPP access network access to 5G core network - Part 1: Untrusted access

## 5 Classification and status

International classification (ICS): 33.060.20

Chinese Standard Classification (CCS): M 36

Prefix YD/T: recommended standard.



Preview: page 3 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-4294-2023