Chinastandards.org

ICS 33.060.99
CCS M36

YD

INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

YD/T 6579-2025

Technical requirements and test method of sidelink positioning andsynchronization for LTE-based vehicular communication under out-of-GNSS coverage condition

基于LTE的车联网无线通信技术无GNSS信号条件下的直连通信定位同步技术要求和测试方法

(English Translation)

Issued on: December 17, 2025 **Implemented on: April 1, 2026**

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-6579-2025

Chinastandards.org

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 6579-2025 was issued by Ministry of Industry and Information Technology on 17 December 2025 and has been in force since 1 April 2026.

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 design requirements, system architecture and functional requirements, system workflow, signaling format and transmission parameters, technical requirements for roadside equipment/vehicle terminals, and test methods for a direct communication positioning and synchronization system based on LTE-based vehicle-to-everything (V2X) wireless communication technology under GNSS signal conditions. This standard applies to roadside units (RSUs) that operate in the absence of GNSS signals and support both positioning and synchronization functions based on LTE-V2X direct communication; it also applies to onboard units (OBUs) that support synchronization functions based on LTE-V2X direct communication and can perform positioning based on LTE-V2X direct communication or other technologies such as inertial navigation.

YD/T 6579-2025 falls under ICS 33.060.99, in the field of telecommunications.

Preview: page 2 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-6579-2025

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.

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 6577-2025 - 5G digital cellular mobile telecommunication network - Technical requirements for OTA test system based on compact antenna test range for sub 6GHz gNB equipment

YD/T 6576-2025 - 5G digital cellular mobile telecommunication network - Technical requirement of gNB equipment for MBS (Phase 1)

YD/T 6574-2025 - Technical requirements and test methods of 5G device network slicing for industry

5 Classification and status

International classification (ICS): 33.060.99

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-6579-2025