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ICS 33.060.30
CCS M35

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6597-2025

Air interface protocol requirement for SCPC modemsof broadband VSAT satellite communication system

宽带VSAT卫星通信系统单路单载波（SCPC）调制解调器空口协议要求

(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-6597-2025

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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 6597-2025 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 general requirements, control plane protocol model, user plane protocol model, physical layer protocol, link layer protocol, network layer protocol, and transport layer protocol requirements for SCPC modems in broadband VSAT satellite communication systems. This standard applies to broadband VSAT satellite communication system modem equipment operating in geostationary orbit satellites using SCPC point-to-point operating mode.

YD/T 6597-2025 falls under ICS 33.060.30, 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:

JT/T 1458-2023 - Performance requirements and testing approaches of commercial vehicle communication system (V2X) terminal

JT/T 766.2-2019 - Shipborne terminal of BeiDou navigation satellite system - Part 2: Data exchange protocols

YD/T 6505-2025 - The limits and calculation method of unwanted emission levels produced by a nongeostationary fixed-satellite service system in Ka band at radio astronomy sites

YD/T 6596-2025 - General test method for modems of broadband VSAT satellite communication system

YD/T 6595-2025 - General technical requirement for modemsof broadband VSAT satellite communication system

5 Classification and status

International classification (ICS): 33.060.30

Chinese Standard Classification (CCS): M 35

Prefix YD/T: recommended standard.

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