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ICS 33.040.50
CCS L78

YD

# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# YD/T 6497-2025

## General technical requirement for edge computing for internet of things based on public telecommunication network

基于公用电信网的物联网边缘计算总体技术要求

**(English Translation)**

**Issued on: July 2, 2025** **Implemented on: November 1, 2025**

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

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## 1 Foreword

YD/T 6497-2025 was issued by Ministry of Industry and Information Technology on 2 July 2025 and has been in force since 1 November 2025.

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 overall technical requirements for IoT edge computing under a public telecommunications network, including IoT edge computing system architecture, functional requirements, management requirements, interface requirements, security requirements, reliability requirements, and the requirements for IoT edge computing infrastructure based on a public telecommunications network. This document applies to the development, design, and testing of IoT edge computing systems under a public telecommunications network.

YD/T 6497-2025 falls under ICS 33.040.50, 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:

CJ/T 188-2018 - Technical requirements of utility meters data transmission

YDC 079-2009 - Technical Specifications and Testing Methods of Wireless LAN for Mobile Terminals

YD/T 5080-2026 - Technical Specifications for Network Management System of Optical Cable Transmission Engineering

YD/T 4839.3-2026 - Technical requirements for collaborative management and control of IP network and optical network - Part 3: Interface information model between coordination layer and single domain management control system

YD/T 6491-2025 - Technical requirements for data transmission of room temperature acquisition system based on NB-IoT for heating scenario

## 5 Classification and status

International classification (ICS): 33.040.50

Chinese Standard Classification (CCS): L 78

Prefix YD/T: recommended standard.



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