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ICS 35.240.50
CCS L67

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6566-2025

Industrial Internet - Technical requirements for integration of time sensitive networking and real time operating system

工业互联网时间敏感网络与实时操作系统融合技术要求

(English Translation)

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

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 6566-2025 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 implementation methods for time-sensitive network and real-time operating system (RTOS) convergence end-systems in the Industrial Internet field, including overall architecture, functional requirements, interface requirements, performance requirements, and security requirements. This standard is applicable to guiding the design, research and development, and production of convergence end-systems that comply with time-sensitive network and ROS.

YD/T 6566-2025 falls under ICS 35.240.50, in the field of information technology.

This catalogue holds 725 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:

GB/T 36073-2018 - Data management capability maturity assessment mode

YD/T 6648-2026 - Industrial Internet - Test methods of centralized network configuration for time-sensitive networking

YD/T 4394.9-2026 - Natural language processing technology and product evaluation method - Part 9: opinion mining system

YD/T 4392.3-2026 - General requirements for artificial intelligence development platform - Part 3: Performance requirements

5 Classification and status

International classification (ICS): 35.240.50

Chinese Standard Classification (CCS): L 67

Prefix YD/T: recommended standard.

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