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ICS 33.100
CCS M04

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4676.4-2025

Effect of particle radiation on data center communication equipment - Part 4: reliability requirements for communication equipment affected by particle radiation

粒子辐射对电信系统及设备的影响第4部分：受粒子辐射影响的电信设备的可靠性要求

(English Translation)

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

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4676-4-2025

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1 Foreword

YD/T 4676.4-2025 was issued by Ministry of Industry and Information Technology on 17 December 2025 and has been in force since 1 April 2026.

It is one of 4 parts of the YD/T 4676 series.

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.

2 Scope Preview

This standard specifies the reliability requirements for soft errors in telecommunications equipment installed in telecommunications centers for operator networks, including core network equipment (link and node equipment) and access network equipment. This standard applies to telecommunications systems affected by particle radiation.

YD/T 4676.4-2025 falls under ICS 33.100, 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.

3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

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English translation: about 15 pages (approximate)

4 Related standards

Other parts of this standard:

YD/T 4676.1-2024 - Effects of particle radiation on telecommunication systems and equipment - Part 1: General

YD/T 4676.2-2025 - Part 2: neutron irradiation test methods for communication equipment

YD/T 4676.3-2025 - Part 3: quality estimation methods for mitigation measures based on particleradiation tests

Standards on related subjects:

YD/T 2583.18-2019 - Requirement and measurement methods of electromagnetic compatibility for cellular mobile telecommunication equipment - Part 18: 5G user equipment and ancillary equipment

YD/T 2583.14-2013 - Requirements and measurement methods of electromagnetic compatibility for cellular mobile telecommunications equipment. Part 14: LTE user equipment and ancillary equipment

YD/T 2436-2012 - Technical requirements and measurement method of the interface of multi mode terminal equipment

5 Classification and status

International classification (ICS): 33.100

Chinese Standard Classification (CCS): M 04

Prefix YD/T: recommended standard.

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