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YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 3421.16-2025

Broadband customer intelligent gateway based on public telecommunication network - Part 16: Security technical requirements for intelligent home networking device

基于公用电信网的宽带客户智能网关第16部分：智能家庭组网设备安全技术要求

(English Translation)

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

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-3421-16-2025

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1 Foreword

YD/T 3421.16-2025 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 16 parts of the YD/T 3421 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 security technical requirements for smart home networking equipment, including hardware security, system security, network security, application security, and data security. This standard applies to the design, development, production, and operation of smart home networking equipment customized by operators for use by broadband customers of public telecommunications networks. Smart home networking equipment sold in the open market can refer to this standard. This standard does not apply to wireless repeaters, powerline communication terminals, or other equipment that only support Layer 2 functionality.

YD/T 3421.16-2025 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

Other parts of this standard:

YD/T 3421.1-2018 - Broadband customer intelligent gateway based on public telecommunication network--Part 1: General requirements

YD/T 3421.2-2019 - Broadband customer intelligent gateway based on public telecommunication network. Part 2: Technical requirements for home intelligent gateway

YD/T 3421.3-2021 - Part 3: Technical requirements of gateway management platform

YD/T 3421.4-2024 - Broadband Customer Intelligent Gateway Based on Public Telecommunications Network - Part 4: Technical requirements for the interface between the gateway and the gateway management platform

YD/T 3421.5-2021 - Part 5: General requirements for control and management between broadband customer intelligent gateway and intelligent terminal equipment

YD/T 3421.6-2019 - Broadband customer intelligent gateway based on public telecommunication network. Part 6: Requirements for fault diagnosis parameters

YD/T 3421.7-2021 - Broadband Customer Intelligent Gateway Based on Public Telecommunication Network - Part 7: Technical Requirements for Enterprise Intelligent Gateway

YD/T 3421.8-2021 - Part 8: Technical requirements for intelligent home networking device

YD/T 3421.9-2020 - Part 9: Technical requirements for interface between home intelligent gateway and intelligent home networking equipment

YD/T 3421.10-2021 - Part 10: Technical requirements for wireless mesh networking

YD/T 3421.11-2022 - Part 11: Intelligent gateway integrating IPTV set-top box function

YD/T 3421.12-2022 - Part 12: Technical requirements for residential intelligent gateway security

YD/T 3421.13-2022 - Broadband Customer Intelligent Gateway Based on Public Telecommunication Network - Part 13: Security Technical Requirements for Enterprise Intelligent Gateway Equipment

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YD/T 3421.14-2023 - Broadband customer intelligent gateway based on public telecommunications network - Part 14: Technical requirements for wireless mesh networking interoperability

YD/T 3421.15-2026 - Part 15: Security technical requirements for intelligent gateway integrating IPTV set-top box functions

Standards on related subjects:

YD/T 1092-2023 - Telecommunication cables - Foamed polyolefin dielectric, corrugated copper-tube outer conductor, 50 Ohm radio-frequency coaxial cable for wireless communications

YD/T 2165-2010 - Technical specification of modular uninterruptible power systems for telecommunications

YD/T 841-1996 - Underground communication pipe with plastic pipe

5 Classification and status

International classification (ICS): 33.040.50

Chinese Standard Classification (CCS): M 42

Prefix YD/T: recommended standard.

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