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ICS 33.040.50
CCS M42

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 2549-2013

Technical requirements for access network: PON system supporting IPv6

接入网技术要求 PON系统支持IPv6

(English Translation)

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 2549-2013 is issued by Ministry of Industry and Information Technology.

This standard specifies various functional requirements for PON devices to support IPv6 in dual stack mode, including QoS, security, multicast and other functions.

This standard is applicable to all kinds of PON equipment in public telecommunication network, and private telecommunication network can also be used for reference.

The following referenced documents are indispensable for the application of this document.

For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

to forward traffic realize the complete IPv6 layer protocol.

2 Scope Preview

This standard specifies the PON equipment used to support dual-stack IPv6 requirements of various functions, including QoS, security, multicast, and other functions.

YD/T 2549-2013 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.

3 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

YD/T 2275

YD/T 2372

IEEE 802.1Q

IETF RFC2710

IETF RFC3315

IETF RFC3633

IETF RFC3810

IETF RFC4862

IETF RFC5072

IETF RFC5172

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IETF RFC5519

IETF RFC6221

4 About this standard

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English translation: about 9 pages (approximate)

5 Related standards

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

YD/T 3296.1-2026 - Multicore and symmetrical pair outside plant cables for digital communications - Polyolefin Insulate - Part 1: Generic specification

YD/T 2019.7-2026 - Test method for broadband customer networking based on public telecommunication network - Part 7: Fiber-To-The-Room (FTTR) business equipment

YD/T 2019.6-2026 - Test method for broadband customer networking based on public telecommunication network - Part 6: Fiber-To-The-Room (FTTR) residential equipment

6 Classification and status

International classification (ICS): 33.040.50

Chinese Standard Classification (CCS): M 42

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