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YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 3344.3-2018

Access network technical requirements 40Gbit/s passive optical network (NG-PON2) Part 3: TC layer

接入网技术要求 40Gbit/s 无源光网络（NG-PON2) 第3部分：TC层

(English Translation)

Issued on: December 21, 2018 **Implemented on: April 1, 2019**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 3344.3-2018 was issued by Ministry of Industry and Information Technology on 21 December 2018 and has been in force since 1 April 2019.

It is one of 3 parts of the YD/T 3344 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 Transmission Aggregation (TC) layer protocol, resource allocation and quality of service, transmission aggregation layer framing, encapsulation method, PHY adaptation sublayer, PLOAM message channel, ONU activation, OLT and 40Gbit/s passive optical network. Timing relationships, performance management, security requirements, power management, and channel management between ONUs. This standard applies to NG-PON2 equipment in the public telecommunication network environment, and the dedicated telecommunication network can also be used as reference.

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YD/T 3344.3-2018 is filed under Chinese Standard Classification M42, in the field of telecommunications and broadcasting.

This catalogue holds 2,288 other YD/T standards without an ICS number.

In this catalogue, YD/T standards carry edition years from 1982 to 2026.

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 3344.1-2018 - 40 Gbit/s passive optical network (NG-PON2) Part 1: General requirements

YD/T 3344.2-2018 - Technical requirements for access network-40Gbit/s passive optical network (NG-PON2)--Part 2: Physical media dependent layer

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 3347.8-2024 - Testing method of broadband customer intelligent gateway based on public telecommunication network - Part 8: Security of smart gateway equipment for households

5 Classification and status

Chinese Standard Classification (CCS): M 42

Prefix YD/T: recommended standard.

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