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ICS 33.040.50
CCS M42

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 3691.3-2020

Technical requirements for access network 10Gbit/s symmetric passive optical network (XGS-PON) - Part 3: Transmission and convergence (TC) layer requirements

接入网技术要求 10Gbit/s对称无源光网络（XGS-PON） 第3部分：传输汇聚（TC）层要求

(English Translation)

Implemented on: July 1, 2020

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 3691.3-2020 is issued by Ministry of Industry and Information Technology.

It is one of 3 parts of the YD/T 3691 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 convergence (TC) layer protocol, resource allocation and quality of service, transmission convergence layer framing, encapsulation method, physical (PHY) adaptation sublayer, PLOAM message channel, ONU activation, OLT and Timing relationship between ONUs, performance management, security requirements, power consumption management, etc. This standard is applicable to XGS-PON equipment in the public telecommunication network environment, and can also be used by reference to the private telecommunication network.

YD/T 3691.3-2020 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 21 pages (approximate)

Chinese original: about 31,379 characters

4 Related standards

Other parts of this standard:

YD/T 3691.1-2020 - Part 1: General requirements

YD/T 3691.2-2020 - Symmetric Passive Optical Network (XGS-PON) - Part 2: Physical media related (PMD) layer requirements

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

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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