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ICS 33.180.01
CCS M33

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4377.1-2023

Optical transceiver integrated module software management interface - Part 1: SFP/SFP+/SFP28

光收发合一模块软件管理接口 第1部分：SFP/SFP+/SFP28

(English Translation)

Issued on: July 28, 2023 **Implemented on: November 1, 2023**

Issued by: Ministry of Industry and Information Technology

Preview: page 1 of 3 shown, 15 in the full document. Complete English PDF, instant download:
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Table of Contents

[Preview only]
1 Scope
2 Normative references
3 Abbreviations
3.1 Terms and definitions
4 General
4.1 Test environment
4.2 UE Information
4.3 Test Implementation
5 Technical requirements

1 Foreword

YD/T 4377.1-2023 was issued by Ministry of Industry and Information Technology on 28 July 2023 and has been in force since 1 November 2023.

It is one of 3 parts of the YD/T 4377 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 software management interface for optical transceiver modules using small form factor hot pluggable (SFP), enhanced small form factor hot pluggable (SFP+), and 25Gbit/s small form factor hot pluggable (SFP28) packages., including the architecture of the optical module software management interface, two-wire interface communication requirements, interface function requirements and register address table. This standard applies to the design and inspection of optical transceiver modules in SFP/SFP+/SFP28 packages.

YD/T 4377.1-2023 falls under ICS 33.180.01, 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 4377.2-2024 - Optical transceiver module software management interface - Part 2: QSFP /QSFP28

YD/T 4377.3-2024 - Optical transceiver module software management interface - Part 3: QSFP-DD/OSFP

Standards on related subjects:

YD/T 2554.1-2013 - Plastic optical fiber connector - Part 1: Type LC

GB/T 9771.1-2008 - Single-mode optical fibres for telecommunication -- Part 1: Characteristics of a dispersion unshifted single-mode optical fibre

GB/T 18480-2001 - Specification for submarine optical fiber cables

YD/T 4378.3-2026 - Coherent driver modulator subassembly - Part 3: 1.2Tb/s

5 Classification and status

International classification (ICS): 33.180.01

Chinese Standard Classification (CCS): M 33

Prefix YD/T: recommended standard.

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