

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YD/T 3391-2018

Replacing YDN 120-1999

**General technical requirements for optical wavelength division
multiplexing systems**

光波分复用（WDM）系统总体技术要求
(English Translation)

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What this standard covers

This standard specifies the overall technical requirements of optical wavelength division multiplexing (WDM) systems, including the hierarchical structure and function block definition of the wavelength division multiplexing system, system classification and application code, optical wavelength region allocation, fiber selection and Basic requirements, WDM system reference point definition, main optical channel parameter definition and requirements, wavelength converter (OTU) technical requirements, wavelength division multiplexing device technical requirements, optical amplifier technical requirements, dispersion compensation technical requirements, FEC technical requirements, dynamic power Control and gain equalization requirements, optical add/drop multiplexer (OADM) requirements, WDM system supervisory path requirements, transmission function and performance requirements, supply voltage tolerance range, network management requirements, and security requirements. This standard is applicable to DWDM and CWDM systems with single-fiber unidirectional transmission and uniform frequency grating fixed at a rate of 100 Gbit/s and below, and a CWDM system with single-fiber bidirectional transmission and uniform fixed frequency grid.

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