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

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**Technical Requirements for Ultra LONG Haul $N \times 10$ Gbit/s
Wavelength Division Multiplexing (WDM) Systems**

$N \times 10$ Gbits超长距离波分复用(WDM)系统技术要求
(English Translation)

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What this standard covers

This standard specifies the N x 10Gbit/s ultra-long haul WDM unidirectional single fiber (WDM) system in the C-band transmission of technical requirements, including system classification, system parameter requirements, technical requirements for optical wavelength converter, technical requirements of optical amplifiers, dispersion compensation technology requirements, technical requirements for forward error correction, dynamic power control and gain equalization technical requirements, optical add-drop multiplexer (OADM) technical requirements, optical supervisory channel requirements, transfer functions and performance requirements, network management requirements, and automatic power reduction (APR) process requirements. This standard applies to radio relay transmission distance of 1000km ~ 3000km, single- channel rate of 10Gbit/s, operating at C-band, transmission code as non- zero (NRZ) and zero (RZ) multi- span long distance WDM systems and radio relay transmission distance of 160km ~ 200km, single- channel rate of 10Gbit/s, operating at C-band, transmission code for the NRZ and RZ single- span ultra-long haul WDM systems.

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Standards quoted by this document

YD/T 1274-2003; YD/T 1259-2003; YD/T 1383-2005; YDN 120-1999; ITU-T G.652; ITU-T G.655; ITU-T G.666; ITU-T G.667; ITU-T G.691; ITU-T G.709; ITU-T G.957; ITU-T G.959.1; ITU-T G.975; ITU-T G.975.1; ITU-T G. SUP43; IEEE 802.3