

ICS 33.180.01
CCS M33

YD

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

YD/T 6790-2026

**Test method for access network equipment - 50Gbit/s Passive
Optical Network (50G-PON)**

接入网设备测试方法 50Gbit/s无源光网络 (50G-PON)
(English Translation)

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Foreword

YD/T 6790-2026 is a recommended industry standard of the People's Republic of China in the Telecom sector, approved and issued by the Ministry of Industry and Information Technology on 15 April 2026, with effect from 1 August 2026.

It is administered by the China Communications Standards Association.

Classification: ICS 33.180.01; CCS M33.

1 Scope

YD/T 6790-2026 describes test methods for access network equipment of the 50Gbit/s passive optical network (50G-PON), covering the optical line terminal (OLT) at the central office and the optical network unit (ONU) on the user side. The methods deal with interfaces, functions, performance, and operation, administration and maintenance. It applies to testing of 50G-PON equipment in public telecommunication networks, and private telecommunication networks may also use it as a reference.

Equipment manufacturers, telecom operators and test laboratories can use it for development, acceptance and interoperability checks. It is a voluntary industry standard, as the /T in the code shows. It was approved by the Ministry of Industry and Information Technology, issued on 15 April 2026 and takes effect on 1 August 2026. It is a new standard.