

ICS 33.180.01
CCS M42

YD

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

YD/T 7040-2026

**Test method for access network - PON supporting low latency
and deterministic latency**

接入网设备测试方法 无源光网络（PON）系统支持低时延和确定性时延
(English Translation)

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Foreword

YD/T 7040-2026 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 1 June 2026, with effect from 1 September 2026.

It is administered by the China Communications Standards Association.

Classification: ICS 33.180.01; CCS M42.

1 Scope

YD/T 7040-2026 describes the functional tests, performance tests and latency measurement tests for time division multiplexing passive optical network (TDM PON) systems that support low latency and deterministic latency. The document applies to the testing of GPON, XG(S)-PON and 50G-PON equipment intended for low latency and deterministic latency application scenarios. EPON and 10G-EPON equipment may also use it as a reference.

The standard is intended for access network equipment manufacturers, telecom operators and test laboratories that verify how passive optical network equipment performs in applications sensitive to delay. It is a voluntary industry standard, as shown by the /T in its code. It was approved by the Ministry of Industry and Information Technology, issued on 1 June 2026 and takes effect on 1 September 2026. It is a new standard.