

ICS 33.040.50
CCS M42

YD

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

YD/T 6673-2026

**SDN based broadband access network - Configuration and
acquisition model of PON with low latency and deterministic
latency**

基于SDN的宽带接入网 PON系统支持低时延和确定性时延的配置和采集模型
(English Translation)

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Foreword

YD/T 6673-2026 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 11 March 2026, with effect from 1 June 2026.

It is administered by the China Communications Standards Association.

Classification: ICS 33.040.50; CCS M42.

1 Scope

YD/T 6673-2026 sets out requirements for a configuration and acquisition model that lets a passive optical network (PON) system support low latency and deterministic latency within a broadband access network based on software-defined networking (SDN). It covers the management of low latency and deterministic latency, and the configuration and collection of latency measurement data.

The document applies to the design, research and development, and production of GPON, XG(S)-PON and 50G-PON equipment intended for applications that need low or deterministic latency. EPON and 10G-EPON equipment may follow it by reference. It is useful to equipment manufacturers, network software developers and operators who specify access network gear. It is a voluntary standard approved by the Ministry of Industry and Information Technology, issued on 11 March 2026 and effective from 1 June 2026. It is a new standard.