

ICS 33.050
CCS M42

YD

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

YD/T 6789-2026

**Networking technology for industrial internet - Technical
requirements for network and computation cooperation in
industrial PON**

工业互联网联网用技术 工业无源光网络（PON）算网协同技术要求
(English Translation)

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Foreword

YD/T 6789-2026 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 33.050; CCS M42.

1 Scope

The document specifies technical requirements for network and computation cooperation in industrial passive optical networks (PON). It mainly covers the deployment architecture of the industrial PON computing network, interface requirements for network and computation cooperation, network function requirements, computing function requirements and requirements for the orchestration and management layer. It applies to the research, construction and deployment of equipment and platforms that support network and computation cooperation in industrial PON.

Equipment vendors, platform developers, network builders and industrial operators are typical users. It is a voluntary industry standard (code with /T). 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.