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YD

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

YD/T 6863-2026

Technical guide for 5G private network ShangMi application

5G专网商用密码应用技术指南

(English Translation)

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Foreword

YD/T 6863-2026 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 33.040.20; CCS M13.

1 Scope

YD/T 6863-2026 gives guidance on applying commercial cryptography (the ShangMi algorithm suite used in China) in 5G private networks. The guidance covers four aspects: commercial cryptography in the access network, in the core network, in secure communication between domains, and in operation and maintenance management. It is written for private 5G networks that an operator builds on an independent basis, and it explains how cryptographic protection is to be applied across each part of such a network.

The guide is used by telecom operators that plan and build independent 5G private networks, by equipment vendors, and by security designers and integrators working on these networks. It is a voluntary standard, as shown by the /T in its code. 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.