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

GB/T 46919-2025

**Professional digital trunking communication systems based on
12.5 kHz TDMA channels - Technical specification for mobile
stations**

基于12.5kHz信道的时分多址（TDMA）专用数字集群通信系统 移动台技术规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document is one of a series of technical specifications for dedicated digital trunking communication systems based on a 12.5kHz channel using Time Division Multiple Access (TDMA). The structure and names of this series of standard documents are as follows:

---GB/T 46919 Mobile Station Technology for Time Division Multiple Access (TDMA) Dedicated Digital Trunking Communication Systems Based on 12.5kHz Channel specification";

---GB/T 46923 General Technical Specifications for Dedicated Digital Trunking Communication Systems Based on 12.5kHz Channel Time Division Multiple Access (TDMA) beg";

---GB/T 34991 Air Interface Material for Dedicated Digital Trunking Communication Systems Based on 12.5kHz Channel for Time Division Multiple Access (TDMA) "Technical Specifications for Data Link Layer and Data Layer";

---GB/T 34992 Air Interface Call for a Dedicated Digital Trunking Communication System Based on a 12.5kHz Channel for Time Division Multiple Access (TDMA) Called the "Control Layer Technical Specification";

---GB/T 46920 Security Technical Requirements for Dedicated Digital Trunking Communication Systems Based on Time Division Multiple Access (TDMA) Channels (12.5kHz) beg";

---GB/T 46922 Interconnection Technology for Dedicated Digital Trunking Communication Systems Based on 12.5kHz Channel (Time Division Multiple Access (TDMA)) Technical Specifications;

---GB/T 46921 Compatibility Testing of Dedicated Digital Trunking Communication Systems Based on 12.5kHz Channel try". Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the Ministry of Industry and Information Technology of the People's Republic of China. This document was drafted by: the Science and Technology Information Bureau of the Ministry of Public Security, Hytera Communications Corporation, and Beijing ZTE Gaoda Communication Technology Co., Ltd. Company, Sichuan Haige Hengtong Private Network Technology Co., Ltd., Tianjin 712 Mobile Communications Co., Ltd., First Research Institute of the Ministry of Public Security, and Eastern Communications Joint-stock company, Hangzhou YouNeng Communication Systems Co., Ltd., Fujian KeLiXun Communication Co., Ltd., Beijing Wange Digital Communication Technology Co., Ltd. The company, Guangzhou Weide Technology Co., Ltd. The main drafters of this document are. Chen

Mingjun, Yu Yang, Zhang Lihua, Yuan Yifang, Fan Zhai, Qin Sibao, Sun Pengfei, Song Zhensu, Mi Lei, and Jiang Qingsheng. Wang Weimin, Zhu Zhenrong, Wang Qiang, Rong Jun, Yao Zhongbang, Chu Li, Li Ping. Time Division Multiple Access (TDMA) based on a 12.5kHz channel Technical Specifications for Mobile Stations in Dedicated Digital Trunking Communication Systems

1 Scope

GB/T 46919-2025 is the Chinese national standard covering the handset and mobile radio of a TDMA trunked system - the transmitter and receiver performance, the vocoder, the battery endurance that a shift depends on, the emergency button and the ruggedness required of a radio carried into a fire. At 33,000 words, first edition, the fourth of the TDMA family published together. It was issued on 31 December 2025 and has been in force since 1 April 2026, as a first edition. The document is under the responsibility of the Ministry of Industry and Information Technology. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the requirements for mobile stations in a dedicated digital trunking communication system based on a 12.5kHz channel, including... Mobile station classification and equipment composition, basic requirements and testing methods, parameter programming, external equipment interface protocols, as well as marking, packaging, transportation, and storage. Require. This document applies to the design and manufacturing of mobile stations for a Time Division Multiple Access (TDMA) dedicated digital trunking communication system based on a 12.5kHz channel. Manufacturing, inspection, use and maintenance management.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 191 Pictorial Symbols for Packaging and Storage

GB/T 4208 Degrees of protection provided by enclosures (IP code)

GB/T 9254.1 Electromagnetic compatibility of information technology equipment, multimedia equipment and receivers - Part

3.1 Terms and Definitions The terms and definitions defined in GB/T 15844-2017 and

GB/T 46923-2025, as well as the following terms and definitions, apply to this document.

3.1.1 host computer A device that communicates with and controls mobile stations.

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