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

GB 48063-2026

**General technical specification for BDS positioning modules of
transportation**

交通运输北斗卫星导航系统定位模块通用技术规范

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Foreword

This document was issued on 30 July 2026 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 February 2027.

It is a GB standard without the /T suffix: compliance is mandatory in China.

It is classified under ICS 03.220 and Chinese classification R 85.

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This document was drafted in accordance with GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

Attention is drawn to the possibility that some elements of this document may be the subject of patent rights. The issuing body assumes no responsibility for identifying them.

This document was proposed by and is under the jurisdiction of the Ministry of Transport of the People's Republic of China.

1 Scope

GB 48063 is the mandatory Chinese standard for the BeiDou positioning modules fitted to transport vehicles. Commercial vehicles, coaches and hazardous goods carriers in China are required to report their position continuously, and this module is the hardware that produces that position: if it drifts, loses fix in a tunnel and is slow to recover, or reports a stale reading as current, the supervision system that depends on it is fed bad data. The document sets the technical requirements such a module has to meet and the test methods that verify them, organised as basic, functional and performance requirements, environmental adaptability and reliability, each with its own test clause, and closes with the inspection rules that decide conformity. BeiDou is China's own satellite navigation system and its use is mandated rather than optional in regulated transport. Compliance is compulsory in China from 1 February 2027.

3 Terms, definitions and abbreviations

Clause 3 is organised as follows: 3.1 Terms and definitions; 3.2 Abbreviations.

4 Technical requirements

Clause 4 is organised as follows: 4.1 Basic requirements; 4.2 Functional requirements; 4.3 Performance requirements; 4.4 Environmental adaptability; 4.5 Reliability.

5 Test methods

Clause 5 is organised as follows: 5.1 Test conditions; 5.2 Testing of basic requirements; 5.3 Testing of functional requirements; 5.4 Testing of performance requirements; 5.5 Testing of environmental adaptability; 5.6 Reliability testing.

6 Inspection rules

Clause 6 is organised as follows: 6.1 Inspection requirements; 6.2 Inspection content; 6.3

Judgement rules.

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