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

GA/T 527.4-2018

**Road traffic signal control mode--Part 4: Requirements for
implementation of coordinated control mode for arterial roads**

道路交通信号控制方式 第4部分：干线协调信号控制方式实施要求

(English Translation)

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Foreword

GA/T 527 "Road Traffic Signal Control Method" is divided into the following sections.

- Part 1. General technical conditions;
- Part 2. Accessibility status and control benefit evaluation indicators and methods;
- Part 3. Implementation requirements for single-point signal control methods;
- Part 4. Implementation requirements for trunk line coordination signal control methods;
- Part 5. Variable guide lane traffic control rules;
- Part 6. Priority control rules for bus intersections;
- Part 7. Priority control rules for tram crossings;
- Part 8. The tidal lane traffic control rules;
- Part 9. ramp control rules.

This part is the fourth part of GA/T 527.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part is proposed and managed by the Ministry of Public Security Road Traffic Management Standardization Technical Committee.

This section is responsible for drafting the unit. Traffic Management Science Research Institute of the Ministry of Public Security.

Participated in the drafting of this section. Guangdong Zhenye Youkong Technology Co., Ltd.

1 Scope

This part of GA/T 527 specifies the classification, setting conditions, implementation flow, control period division and control of trunk coordination signal control methods.

Sub-area determination, control mode selection, control parameter determination, control scheme transition, and control scheme evaluation.

This section applies to the design and application of trunk line coordination signal control methods.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 31418 Road Traffic Signal Control System Terminology GA/T 527.1-2015 Road traffic signal control methods - Part 1. General technical conditions GA/T 527.2 Road traffic signal control methods - Part 2. Assessments and methods

3 Terms and definitions

The following terms and definitions as defined in GB/T 31418, GA/T 527.1-2015 apply to this document.

Intercept flow control trafficflowmetering to alleviate over-saturation in a specific area or avoid queuing overflow at the bottleneck intersection, reduce the signal control parameters of several upstream intersections to reduce Signal control measures to enter a specific area of the vehicle and equalize the queues at each intersection.

4.1 According to the control method

According to the coordinated control mode of trunk lines, it is divided into trunk line timing coordination, trunk line induction coordination and trunk line adaptive coordination.

4.2 According to the direction of coordination

According to the direction of trunk coordination, it is divided into one-way coordination and two-way coordination.

4.3 According to the control strategy

According to the coordinated control strategy of the trunk line, it is divided into green wave coordination and interception control.

5.1 Road conditions

To implement trunk coordination signal control, the following road conditions should be met.