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**Internet of things - Edge computing - Part 3: Node interface
requirements**

物联网 边缘计算 第3部分：节点接口要求

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is part 3 of GB/T 41780 "Edge Computing for the Internet of Things". GB/T 41780 has published the following parts.

- Part 1: General requirements;
- Part 2: Data management requirements;
- Part 3: Node interface requirements.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Introduction

GB/T 41780 "Internet of Things Edge Computing" specifies the general requirements, data management requirements, node interfaces, and The purpose is to standardize the design of edge computing from the perspective of the Internet of Things and guide the development of edge computing.

GB/T 41780 is planned to consist of five parts.

- Part 1: General requirements. The purpose is to provide definitions of IoT edge computing terms and types of edge computing nodes, and propose The system architecture and functional architecture of edge computing in the Internet of Things specifies the functional requirements of edge computing nodes in the Internet of Things system.
- Part 2: Data management requirements. The purpose is to unify the IoT edge computing data management functional framework and specify the requirements for different edge computing The data management function requirements of computing nodes and the data security requirements of edge computing.
- Part 3: Node interface requirements. The purpose is to provide an interface description of IoT edge computing nodes and unify interface requirements.
- Part 4: Node technical requirements. The purpose is to give the characteristics of edge computing nodes in the Internet of Things system and specify the Technical requirements for computing nodes.
- Part 5: System collaborative interaction requirements. The purpose is to unify the collaborative interaction framework of the IoT edge computing system and specify the requirements for edge computing.

The requirements for information exchange and mutual collaboration between computing objects. IoT Edge Computing Part 3. Node interface requirements

1 Scope

This document gives the location and correspondence of the IoT edge computing node interface, and specifies the overall requirements and Transfer content.

This document applies to the design, development and application of IoT edge computing node interfaces.

2 Normative references

GB/T 22239-2019

GB/T 35319-2025

GB/T 41780.1-2022

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Edge computing

A computing architecture that deploys computing and storage at the edge of the network close to perception and control devices or data sources.

[Source. GB/T 41780.1-2022, 3.1, modified]

3.2 edge computing node

A functional entity with data processing, network communication and storage capabilities at the edge of the Internet of Things.

Note. It relies on IoT terminals, edge gateways, edge controllers, edge computing servers and other devices.

[Source. GB/T 41780.1-2022, 3.2, modified]

3.3

A shared boundary between associated edge computing nodes and between edge computing nodes and the cloud (data center).

4 Abbreviations

The following abbreviations apply to this document. App. Application