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Brain-inspired computing - Computing capability test method for neuromorphic chips

类脑计算 神经拟态芯片计算能力测试方法

(English Translation)

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Foreword

GB/Z 255-2026 is a national guiding technical document (GB/Z) of the People's Republic of China, issued on 27 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China.

It is under the responsibility of the Standardization Administration of China.

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1 Scope

Neuromorphic chips are designed to process information in a manner inspired by the brain, and measuring their performance requires methods suited to that architecture. This guiding technical document concerns the test method for the computing capability of neuromorphic chips, within the broader field of brain-inspired computing. It is a GB/Z document, which means it offers guidance for practice and does not impose mandatory obligations.

Chip designers and manufacturers can use it when characterizing their products, while independent test laboratories and benchmarking teams can use it to organize capability testing in a way that others can follow. System developers and procurement specialists who must compare neuromorphic hardware from different suppliers also have an interest in a common test approach. Researchers working on brain-inspired computing platforms will recognize the need for consistent evaluation. The document was issued on 27 August 2026 by the national standardization administration. It is one of two brain-inspired computing guidance documents released on that date, the other dealing with a reference architecture, and it suits anyone tracking the standardization of this emerging field in China.

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