

1. Tower server, rack server - G/TBT/N/CHN/1582/Add.1 dated 20 July 2023

Notifying Member	China
Type of Notification	Addendum to Regular Notification
Economic Relevance	High
Technical Relevance	Technical-New

Proposal in brief

- a. China has proposed the establishment of the “Server Energy Efficiency Allowable Values and Energy Efficiency Levels” for servers in the People's Republic of China. The purpose is to specify the energy efficiency grades, allowable values of energy efficiency, and testing and calculation methods for servers.
- b. The scope of this proposal covers 1-way and 2-way general-purpose tower and rack servers but excludes elastic servers, high-performance computing systems with integrated secondary processing accelerators for computer services, fully fault-tolerant servers, storage devices (including blade storage), and network devices.
- c. The document proposes energy efficiency grades, allowable values of energy efficiency, and test methods for tower and rack servers. It applies to 1-way and 2-way general-purpose tower and rack servers but excludes other types of servers like blade servers, multi-node servers, and high-performance computing systems.
- d. The document provides definitions for "working status" and "energy efficiency ratio." There are three levels of server energy efficiency, with level 1 being the most energy-efficient. The energy efficiency ratio requirements vary based on the type of central processing unit used in the server.
- e. The server energy efficiency test should be conducted following the provisions in Appendix A. It specifies the environmental conditions for conducting the energy efficiency test, including ambient temperature and power supply specifications.
- f. If the proposed Server Energy Efficiency Benchmark Tool (BenchSEE) cannot be used, testing can be done concerning ISO/IEC 21836:2020.

Analysis

- The said document referred to the GB/T 9813.3 and ISO/IEC 21836:2020 as essential documents for the application of this standard. Since the documents are not available or only paid version is available we are not in a position to analyse the same.
- Stakeholders, including manufacturers and users of servers in China, need to review the proposed energy efficiency grades and allowable values to ensure compliance with the upcoming standard. They should review the proposed standard and provide comments within the specified deadline.
- Feedback on the proposed test method in Appendix A should also be submitted for consideration before finalizing the standard.