

JEDEC STANDARD

Backup Energy Module Standard for NVDIMM Memory Devices (BEM)

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BACKUP ENERGY MODULE STANDARD FOR NVDIMM MEMORY DEVICES (BEM)

(From JEDEC Board Ballot JCB-21-48, formulated under the cognizance of the JC-45 Committee on DRAM Modules, item 2279.03.)

1 Scope

This standard defines the functional requirements of Backup Energy Module (BEM), henceforth referred to as BEM in this standard. This module shall be used to provide backup power to the Industry Defined Storage Array Controller Cards and NVDIMM-n as applicable. All standards are applicable under all operating conditions unless otherwise stated.

2 Reference Documents

2.1 Applicable Documents

The following documents form a part of this standards reference to the extent specified herein. Unless otherwise indicated, the content of this standard applies. Undated references refer to the latest revision of the standard that is in effect at the time the product is intended to be released.

Table 1 — Reference documents

Reference	Description
PMBus_Specification_Part_I_Rev_1_3_1_20150313	PMBus™ Power System Management Protocol Specification Part I – General Requirements, Transport And Electrical Interface
PMBus_Specification_Part_II_Rev_1_3_1_20150313	“PMBus™ Power System Management Protocol Specification Part II – Command Language
Smart Battery Data Specification	Smart Battery Data Specification Revision 1.1 December 11, 1998
JESD245C	JEDEC STANDARD, Byte Addressable Energy Backed Interface
ANSI C63.4	“American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.” American National Standards Institute (ANSI), 2014.
Australian Communications & Media Authority	Electromagnetic Compatibility Framework - Information for Suppliers – Residential, Commercial and Light Industry”(and amendments) URL: http://www.acma.gov.au
C.I.S.P.R. Pub. 32	"Limits and methods of measurement of radio interference characteristics of information technology equipment.” International Special Committee on Radio Interference (C.I.S.P.R.), 2008.
CCC EMC	"Regulations for Compulsory Product Certification.” China Certification Center, URL: http://www.cemc.org.cn .