

BUREAU OF INDIAN STANDARDS

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मसौदा भारतीय मानक

पहनने योग्य विद्युत उपकरण एवं प्रौद्योगिकियां –
भाग **801** : स्मार्ट बॉडी एरिया नेटवर्क (स्मार्टबीएएन) –
अनुभाग **1**: वर्धित अल्प-निम्न शक्ति भौतिकीय परत

Draft Indian Standard

***Wearable electronic devices and technologies –
Part 801: Smart body area network (SmartBAN) –
Section 1: Enhanced ultra-low power
physical layer***

ICS 35.100.01; 35.240.80

NATIONAL FOREWORD

(Formal clauses to be added later)

This Draft Indian Standard Part 801/Sec 1 which is identical with IEC 63203-401-1:2023 ‘Wearable electronic devices and technologies –Part 801-1: Smart body area network (SmartBAN) – Enhanced ultra-low power physical layer’ issue by the Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of Wearable Electronic Devices and Technologies Sectional Committee LITD 33 and approval of the Electronics and Information Technology Division Council.

The text of IEC Standard may be approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appears referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current Practice is to use a point (.) as the decimal marker.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:2022 ‘Rules for rounding off numerical values (Second Revision)’. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard

SCOPE of IEC 63203-801-1:2022

This part of IEC 63203-801 specifies the ultra-low power physical layer (PHY) of SmartBAN.

As the use of wearables and connected body sensor devices grows rapidly in the Internet of Things (IoT), wireless body area networks (BANs) facilitate the sharing of data in smart environments such as smart homes, smart life, etc. In specific areas of digital healthcare, wireless connectivity between the edge computing device or hub coordinator and the sensing nodes requires a standardized communication interface and protocols.

The present document describes the following physical layer (PHY) specifications:

- packet formats;
- modulation;
- forward error correction.

Note: The Technical content of this document has not been enclosed as these are identical with the corresponding IEC Standard. For details please refer IEC 63203-801-1:2022 or kindly contact.

Doc No. : LITD 33 (24132)
Draft IS/ IEC 63203-801-1:2022
February 2024

Head,
Electronics & IT Department Bureau of Indian Standards
9, B.S. Zafar Marg, New Delhi-110002
Email: litd@bis.gov.in, litd33@bis.gov.in
Tele: 011-23608235