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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 44806.1-2024

**Integrated circuits - EMC evaluation of transceivers - Part 1:
General conditions and definitions**

集成电路 收发器的EMC评估 第1部分：通用条件和定义
(English Translation)

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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 1 of GB/T 44806 "EMC Assessment of Integrated Circuit Transceivers". GB/T 44806 has been published in Lower part.

--- Part 1: General conditions and definitions.

This document is equivalent to IEC 62228-1:2018 "EMC evaluation of integrated circuit transceivers Part 1: General conditions and specifications" righteous".

Introduction

To standardize the electromagnetic compatibility measurement of transceivers and provide electromagnetic compatibility measurement methods and evaluation requirements for transceiver manufacturers and testing agencies.

GB/T 44806 specifies the general conditions, definitions, test procedures and test requirements for electromagnetic compatibility measurements of transceivers, and is intended to consist of 7 parts.

constitute.

--- Part 1: General conditions and definitions. The purpose is to specify the general conditions and definitions for electromagnetic compatibility measurements of transceivers.

--- Part 2: LIN transceiver. The purpose is to specify the test procedures and test requirements for LIN transceivers.

--- Part 3: CAN transceiver. The purpose is to specify the test procedures and test requirements for CAN transceivers.

--- Part 4: FlexRay transceiver. The purpose is to specify the test procedures and test requirements for FlexRay transceivers.

--- Part 5: Ethernet transceivers. The purpose is to specify the test procedures and test requirements for Ethernet transceivers.

--- Part 6: PSI5 transceiver. The purpose is to specify the test procedures and test requirements for PSI5 transceivers.

--- Part 7: CXPI transceiver. The purpose is to specify the test procedures and test requirements for CXPI transceiver.

EMC Evaluation of Integrated Circuit Transceivers Part 1: General conditions and definitions

1 Scope

This document provides general information on the electromagnetic compatibility (EMC) evaluation of transceiver integrated circuits (ICs) intended for use in wired networks under network conditions.

Use conditions and definitions.

This document applies to the common test conditions, common test arrangements, and test and measurement methods of other parts of IEC 62228.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

ISO 10605 Road vehicles - Test methods for electrical disturbances caused by electrostatic discharge Note. GB/T 19951-2019 Test method for immunity of electrical/electronic components of road vehicles to electrostatic discharge (ISO 10605:2008, MOD) IEC 61967-1 Integrated circuits - Measurement of electromagnetic emissions - Part 1: General conditions and definitions IEC 61967-4 Integrated circuit electromagnetic emission

measurements - Part 4: Conducted emission measurements - 1ohm/150ohm coupled method IEC 62132-1 Integrated circuits - Electromagnetic immunity measurement - Part 1: General conditions and definitions Note. GB/T 42968.1-2023 Integrated circuit electromagnetic immunity measurement Part 1: General conditions and definitions (IEC 62132-1:2015, IDT) IEC 62132-4 Integrated circuit electromagnetic immunity measurement (150kHz~1GHz) Part 4: Radio frequency power direct injection method IEC 62215-3 Integrated circuits - Measurement of pulse immunity - Part 3: Asynchronous transient injection method Note. GB/T 43034.3-2023 Integrated circuit pulse immunity measurement Part 3: Asynchronous transient injection method (IEC 62215-3:2013, IDT)

3.1 Terms and Definitions

For the purposes of this document, the terms and definitions defined in IEC 61967-1 and IEC 62132-1 and the following apply.