

STN	EMC IC modelovanie. Časť 4: Modely integrovaných obvodov na simuláciu správania RF odolnosti. Modelovanie odolnosti proti rušeniu šírenému vedením (ICIM-CI).	STN EN 62433-4
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EMC IC modelling - Part 4: Models of integrated circuits for RF immunity behavioural simulation - Conducted immunity modelling (ICIM-CI)

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

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**EMC IC modelling - Part 4: Models of integrated circuits for RF
immunity behavioural simulation - Conducted immunity
modelling (ICIM-CI)
(IEC 62433-4:2016)**

Modèles de circuits intégrés pour la CEM -
Partie 4: Modèles de circuits intégrés pour la simulation du
comportement d'immunité aux radiofréquences -
Modélisation de l'immunité conduite (ICIM-CI)
(IEC 62433-4:2016)

EMV-IC-Modellierung - Teil 4: Modelle integrierter
Schaltungen für die Simulation des Verhaltens der HF-
Störfestigkeit - Modellierung der Störfestigkeit gegen
leitungsgeführte Störungen (ICIM-CI)
(IEC 62433-4:2016)

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European foreword

The text of document 47A/988/FDIS, future edition 1 of IEC 62433-4, prepared by SC 47A "Integrated circuits" of IEC/TC 47 "Semiconductor devices" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62433-4:2016.

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(normative)

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62132-1	-	Circuits intégrés - Mesure de l'immunité électromagnétique - Partie 1: Conditions générales et définitions	EN 62132-1	-
IEC 62132-4	-	Circuits intégrés - Mesure de l'immunité électromagnétique 150 kHz à 1 GHz - Partie 4: Méthode d'injection directe de puissance RF	EN 62132-4	-
IEC 62433-2	-	Modèles de circuits intégrés pour la CEM - EN 62433-2 Partie 2: Modèles de circuits intégrés pour la simulation du comportement lors de perturbations électromagnétiques - Modélisation des émissions conduites (ICEM-CE)		-
ISO 8879	1986	Traitemennt de l'information - Systèmes bureautiques - Langage normalisé de balisage généralisé (SGML)	-	-
ISO/IEC 646	1991	Technologies de l'information - Jeu ISO de caractères codés à 7 éléments pour l'échange d'information		-
CISPR 17	-	Méthodes de mesure des caractéristiques d'antiparasitage des dispositifs de filtrage CEM passifs	EN 55017	-



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**EMC IC modelling –
Part 4: Models of integrated circuits for RF immunity behavioural simulation –
Conducted immunity modelling (ICIM-CI)**

**Modèles de circuits intégrés pour la CEM –
Partie 4: Modèles de circuits intégrés pour la simulation du comportement
d'immunité aux radiofréquences – Modélisation de l'immunité conduite (ICIM-CI)**





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**EMC IC modelling –
Part 4: Models of integrated circuits for RF immunity behavioural simulation –
Conducted immunity modelling (ICIM-CI)**

**Modèles de circuits intégrés pour la CEM –
Partie 4: Modèles de circuits intégrés pour la simulation du comportement
d'immunité aux radiofréquences – Modélisation de l'immunité conduite (ICIM-CI)**

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The text of this standard is based on the following documents:

FDIS	Report on voting
47A/988/FDIS	47A/989/RVD

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EMC IC MODELLING –

Part 4: Models of integrated circuits for RF immunity behavioural simulation – Conducted immunity modelling (ICIM-CI)

1 Scope

This part of IEC 62433 specifies a flow for deriving a macro-model to allow the simulation of the conducted immunity levels of an integrated circuit (IC). This model is commonly called Integrated Circuit Immunity Model – Conducted Immunity, ICIM-CI. It is intended to be used for predicting the levels of immunity to conducted RF disturbances applied on IC pins.

In order to evaluate the immunity threshold of an electronic device, this macro-model will be inserted in an electrical circuit simulation tool.

This macro-model can be used to model both analogue and digital ICs (input/output, digital core and supply). This macro-model does not take into account the non-linear effects of the IC.

The added value of ICIM-CI is that it could also be used for immunity prediction at board and system level through simulations.

This part of IEC 62433 has two main parts:

- the electrical description of ICIM-CI macro-model elements;
- a universal data exchange format called CIML based on XML. This format allows ICIM-CI to be encoded in a more useable and generic form for immunity simulation.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 62132-1, *Integrated circuits – Measurement of electromagnetic immunity – Part 1: General conditions and definitions*

IEC 62132-4, *Integrated circuits – Measurement of electromagnetic immunity 150 kHz to 1 GHz – Part 4: Direct RF power injection method*

IEC 62433-2, *EMC IC modelling – Part 2: Models of integrated circuits for EMI behavioural simulation – Conducted emissions modelling (ICEM-CE)*

ISO 8879: 1986, *Information processing – Text and office systems – Standard Generalized Markup Language (SGML)*

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koniec náhľadu – text d'alej pokračuje v platenej verzii STN