This is a free page sample. Access the full version online.

NSAI Standards

Irish Standard
I.S. EN 62104:2007

Characteristics of DAB receivers (IEC 62104:2003 (EQV))

© NSAI 2007 No copying without NSAI permission except as permitted by copyright law.

This is a free page sample. Access the full version online.

I.S. EN 62104:2007

Incorporating amendments/corrigenda issued since publication:

This document replaces:	*This document is based on:*	*Published:*
EN 50248:2001	EN 62104:2007 EN 50248:2001	12 October, 2001

This document was published under the authority of the NSAI and comes into effect on: 9 February, 2010	ICS number: 33.060.20

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W **NSAI.ie**

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

Corrigendum to EN 50248:2001

English version

_____

Foreword

Add:

By Technical Board decision D122/162 the text of the International Standard IEC 62104:2003, which is identical with EN 50248:2001, was approved by CENELEC as EN 62104 on 2004-12-07. As a consequence EN 50248:2001 is renumbered as EN 62104:2007.

The following date was fixed:

- latest date by which the existence of EN 62104 has to be announced at national level (doa) 2007-12-01

_____

August 2007

This is a free page sample. Access the full version online.

This page is intentionally left BLANK.

This is a free page sample. Access the full version online.

I.S. EN 62104:2007

EUROPEAN STANDARD **EN 50248**

NORME EUROPÉENNE

EUROPÄISCHE NORM August 2001

ICS 33.160.20 Supersedes EN 50248:1997

English version

Characteristics of DAB receivers

Caractéristiques du récepteur DAB Eigenschaften von DAB-Empfängern

This European Standard was approved by CENELEC on 2000-08-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

© 2001 CENELEC - All rights of exploitation in any form and by any means reserved worldwide for CENELEC members.

Ref. No. EN 50248:2001 E

This is a free page sample. Access the full version online.

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 206, Consumer equipment for entertainment and information and related sub-systems.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50248 on 2000-08-01.

This European Standard supersedes EN 50248:1997.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2002-02-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2003-08-01

Annexes designated "normative" are part of the body of the standard. Annexes designated "informative" are given for information only. In this standard annexes A and C are informative and annex B is normative.

This is a free page sample. Access the full version online.

Contents

1 Scope 4

2 Normative references 4

3 Terms and definitions 5

4 Basic implementation and functional performance requirements 5
- 4.1 Audio decoder 5
- 4.2 Automatic mode selection 7
- 4.3 Frequency bands 7
- 4.4 Service selection 7
- 4.5 Receiver reactions to a multiplex re-configuration 8
- 4.6 Automatic switching to another ensemble 8
- 4.7 Response to conditional access (CA) services 8
- 4.8 Output for audio and other services 8
- 4.9 Transparency for copy protection 9
- 4.10 Coding profiles (Minimum implementation of specified coding profiles) 9

5 Interfaces 9
- 5.1 General 9
- 5.2 RF input 9
- 5.3 Analogue audio interface [EN 61938] 9
- 5.4 Digital audio interface [IEC 60958-3] 9
- 5.5 Coded audio interface [IEC 61937] 9
- 5.6 General digital interface (F in Figure 1) 10
- 5.7 Conditional access interface 10

6 Options 10
- 6.1 General 10
- 6.2 Receiver display 10
- 6.3 Other features 10

7 Minimum performance levels and measuring methods 11
- 7.1 General conditions 11
- 7.2 Audio part - Performance requirements 11
- 7.3 R.F. part 12

Annex A (informative) Recommended centre frequencies for DAB 18

Annex B (normative) Characteristics of a Rayleigh channel 21

Annex C (informative) Bibliography 26

This is a free page sample. Access the full version online.

1 Scope

This standard describes the DAB (Digital Audio Broadcasting) receiver characteristics for consumer equipment intended for terrestrial and cable reception operating in band III and L- band and for satellite reception in L-band. Dedicated receivers for specific applications are not within the scope of this standard.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 50255, *Digital Audio Broadcasting system – Specification of the receiver data interface (RDI)*

EN 55013[1)], *Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment (CISPR 13, mod)*

EN 55020[1)], *Electromagnetic immunity of broadcast receivers and associated equipment - Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment*

EN 60169-24, *Radio-frequency connectors - Part 24: Radio-frequency coaxial connectors with screw coupling, typically for use in 75 ohm cable distribution systems (Type F)*

EN 60315-4, *Methods of measurement on radio receivers for various classes of emission - Part 4: Receivers for frequency-modulated sound broadcasting emissions*

EN 61606, *Audio and audiovisual equipment – Digital audio parts - Basic methods of measurement of audio characteristics (IEC 61606)*

EN 61938, *Audio, Video and audiovisual systems – Interconnection and matching values. Preferred matching values of analogue signals (IEC 61938)*

EN 300 401, *Digital Audio Broadcasting to mobile, portable and fixed receivers. (DAB system standard).*

IEC 60169-10, *Radio-frequency connectors - Part 10: R.F. coaxial connectors with inner diameter of outer conductor 3 mm (0,12 in) with snap-on coupling - Characteristic impedance 50 ohms (Type SMB)*

IEC 60315-1, *Methods of measurement on radio receivers for various classes of emission - Part 1: General considerations and methods of measurement, including audio-frequency measurement* (harmonized as HD 560.1)

IEC 60958-3, *Digital audio interface - Part 3 : Consumer applications*

IEC 61937, *Interface for non-linear PCM encoded audio bitstreams applying to IEC 60958*

ISO/IEC 11172-3, *Coding of moving pictures and associated audio for digital storage media at up to 1,5 Mbit/s - Part 3: Audio*

[1)] An amendment concerning digital receivers is in preparation.

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation