

ETSI EN 300 220-2 V3.1.1 (2017-02)



HARMONISED EUROPEAN STANDARD

**Short Range Devices (SRD) operating
in the frequency range 25 MHz to 1 000 MHz;
Part 2: Harmonised Standard covering the essential
requirements of article 3.2 of Directive 2014/53/EU
for non specific radio equipment**

Reference

REN/ERM-TG28-534

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Foreword

This Harmonised European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.5] to provide one voluntary means of conforming to the essential requirements of Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC [i.2].

Once the present document is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of the present document given in table A.1 confers, within the limits of the scope of the present document, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

The present document is part 2 of a multi-part deliverable. Full details of the entire series can be found in part 1 [1].

For non EU countries the present document may be used for regulatory (Type Approval) purposes.

National transposition dates	
Date of adoption of this EN:	27 January 2017
Date of latest announcement of this EN (doa):	30 April 2017
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 October 2017
Date of withdrawal of any conflicting National Standard (dow):	31 October 2018

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Introduction

The present document is part 2 of a multi-part deliverable covering Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz. Full details of the entire series can be found in part 1 [1].

The present document is structured as follows:

Clause 2 provides references.

Clause 3 provides definitions of terms and abbreviations used.

Clause 4 provides technical requirements.

Annex A (informative) provides a relationship between the present document and essential requirements of Directive 2014/53/EU [i.2].

Annex B (normative): EU wide harmonised national radio interfaces from 25 MHz to 1 000 MHz.

Annex C (normative): National Radio Interfaces not EU wide harmonised.

Annex D (informative): Application form for testing.

Annex E (informative): Selection of parameters.

Annex F (informative): Bibliography.

Annex G (informative): Change History.

1 Scope

The present document specifies technical characteristics and methods of measurements for Non-specific Short Range Devices category equipment types.

Non specific SRDs category is defined by the EU Commission Decision 2013/752/EU [i.3] as:

"The non-specific short-range device category covers all kinds of radio devices, regardless of the application or the purpose, which fulfil the technical conditions as specified for a given frequency band. Typical uses include telemetry, telecommand, alarms, data transmissions in general and other applications".

The present document covers equipment intended for fixed, mobile or nomadic use, including:

- stand-alone radio equipment;
- plug-in radio devices intended for use with or within a variety of host systems;
- plug-in radio devices intended for use within combined equipment.

These radio equipment types are capable of operating in all or any part of the frequency bands given in table 1.

Table 1: SRDs frequency ranges

Short Range Devices frequency ranges	
Transmit and receive	26,957 MHz to 27,283 MHz
Transmit and receive	40,660 MHz to 40,700 MHz
Transmit and receive	138,2 MHz to 138,45 MHz
Transmit and receive	169,4 MHz to 169,8125 MHz
Transmit and receive	433,040 MHz to 434,790 MHz
Transmit and receive	863 MHz to 876 MHz
Transmit and receive	915 MHz to 921 MHz
NOTE:	It should be noted that not all frequency bands in table 1 are implemented in all European countries. Annex B provides an overview of radio interfaces which are harmonised in the European Union. Annex C provides an overview of national radio interfaces not harmonised in the European Union.

It is noted that in the European Commission Decision on Short Range Devices [i.3], some harmonised frequency bands may be subject to usage restrictions such as the exclusion of video or audio use.

Equipment transmitting voice with analog modulation are excluded from the present document.

The present document covers the essential requirements of article 3.2 of Directive 2014/53/EU [i.2] under the conditions identified in annex A.

2 References

2.1 Normative references

References are specific, identified by date of publication and/or edition number or version number. Only the cited version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.