

STN	Zariadenia krátkeho dosahu (SRD) Pozemný radar so syntetickou apertúrou (GBSAR) vo frekvenčnom rozsahu od 17,1 GHz do 17,3 GHz a pozemný radar so syntetickou apertúrou s vysokým rozlíšením (HD-GBSAR) vo frekvenčnom rozsahu od 76 GHz do 77 GHz Harmonizovaná norma pre prístup k rádiovému spektru	STN EN 303 661 V1.1.1 87 3661
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Short Range Devices (SRD); Ground Based Synthetic Aperture Radar (GBSAR) in the frequency range 17,1 GHz to 17,3 GHz and High Definition Ground Based Synthetic Aperture Radar (HD-GBSAR) in the frequency range 76 GHz to 77 GHz; Harmonised Standard for access to radio spectrum

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**Short Range Devices (SRD);
Ground Based Synthetic Aperture Radar (GBSAR)
in the frequency range 17,1 GHz to 17,3 GHz and
High Definition Ground Based Synthetic Aperture Radar
(HD-GBSAR) in the frequency range 76 GHz to 77 GHz;
Harmonised Standard for access to radio spectrum**

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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.6] 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.1].

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.

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Introduction

The present document is developed by ETSI and is designed to fit in a modular structure to cover all radio and telecommunications terminal equipment within the scope of the Directive 2014/53/EU [i.1].

It specifically aims at providing requirements for Ground Based Synthetic Aperture Radar (GBSAR) and High Definition Ground Based Synthetic Aperture Radar (HD-GBSAR). GBSAR and HD-GBSAR are Short Range Devices used for radiodetermination application. The GBSAR and HD-GBSAR applications are intended exclusively for detection of movement related to structures potentially effecting the protection of workers and the general public.

1 Scope

The present document specifies technical characteristics and methods of measurements for Ground Based Synthetic Aperture Radar (GBSAR) in the frequency range 17,1 GHz to 17,3 GHz and High Definition Ground Based Synthetic Aperture Radar (HD-GBSAR) in the frequency range 76 GHz to 77 GHz.

NOTE: The relationship between the present document and essential requirements of article 3.2 of Directive 2014/53/EU [i.1] is given in annex A.

2 References

2.1 Normative references

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

- [1] [ETSI EN 303 883-1 \(V1.2.1\) \(02-2021\)](#): "Short Range Devices (SRD) and Ultra Wide Band (UWB); Part 1: Measurement techniques for transmitter requirements".
- [2] [ETSI EN 303 883-2 \(V1.2.1\) \(02-2021\)](#): "Short Range Devices (SRD) and Ultra Wide Band (UWB); Part 2: Measurement techniques for receiver requirements".

2.2 Informative references

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] [Directive 2014/53/EU](#) of the European Parliament and of the Council of 16 April 2014 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 (RE-Directive).
- [i.2] [CEPT/ERC Recommendation 70-03](#): "Relating to the use of Short Range Devices (SRD)".
- [i.3] [Commission Implementing Decision \(EU\) 2022/180 of 8 February 2022](#) amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices (notified under document C(2022) 644).
- [i.4] ETSI TS 103 361 (V1.1.1): "Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Receiver technical requirements, parameters and measurement procedures to fulfil the requirements of the Directive 2014/53/EU".
- [i.5] [CEPT/ERC/Recommendation 74-01](#): "Unwanted emissions in the spurious domain".

- [i.6] [Commission implementing Decision C\(2015\) 5376 final of 4.8.2015](#) on a standardisation request to the European Committee for Electrotechnical Standardisation and to the European Telecommunications Standards Institute as regards radio equipment in support of Directive 2014/53/EU of the European Parliament and of the Council.
- [i.7] [ECC Report 111](#): "Compatibility studies between Ground Based Synthetic Aperture Radar (GBSAR) and existing services in the range 17.1 GHz to 17.3 GHz".
- [i.8] [ECC Report 315](#): "Feasibility of spectrum sharing between High-Definition Ground Based Synthetic Aperture Radar (HD-GBSAR) application using 1 GHz bandwidth within 74-81 GHz and existing services and applications".
- [i.9] [ECC/DEC/\(21\)02](#): "The harmonised frequency band 76-77 GHz, technical characteristics, exemption from individual licensing and free circulation and use of High Definition Ground Based Synthetic Aperture Radar (HD-GBSAR)".
- [i.10] [ECC Report 262](#): "Studies related to surveillance radar equipment operating in the 76 to 77 GHz range for fixed transport infrastructure".
- [i.11] [European Communications Office](#): "EFIS: ECO Frequency Information System".
- [i.12] ETSI EG 203 336 (V1.2.1): "Guide for the selection of technical parameters for the production of Harmonised Standards covering article 3.1(b) and article 3.2 of Directive 2014/53/EU".
- [i.13] ETSI TS 103 567 (V1.1.1): "Requirements on signal interferer handling".

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