

<b>STN</b>	<b>Zariadenia krátkeho dosahu (SRD) využívajúce technológiu ultraširokého pásma (UWB) Harmonizovaná norma vzťahujúca sa na základné požiadavky podľa článku 3.2 Smernice 2014/53/EU Časť 5: Zariadenia využívajúce technológiu UWB na palubách lietadel</b>	<b>STN EN 302 065-5 V1.1.1</b>  87 2065
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# ETSI EN 302 065-5 V1.1.1 (2017-09)



**Short Range Devices (SRD)  
using Ultra Wide Band technology (UWB);  
Harmonised Standard covering the essential requirements  
of article 3.2 of Directive 2014/53/EU;  
Part 5: Devices using UWB technology onboard aircraft**

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**Reference**

DEN/ERM-TGUWB-142

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**ETSI**

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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.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.

The present document is part 5 of a multi-part deliverable. Full details of the entire series can be found in part 1 [i.6].

<b>National transposition dates</b>	
Date of adoption of this EN:	20 June 2017
Date of latest announcement of this EN (doa):	30 September 2017
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 March 2018
Date of withdrawal of any conflicting National Standard (dow):	31 March 2019

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# 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.

# 1 Scope

The present document applies to transceivers, transmitters and receivers utilizing Ultra WideBand (UWB) technologies and used onboard aircraft, i.e. radio links for intra-aircraft communications purposes inside an aircraft.

The present document applies to impulse, modified impulse and RF carrier based UWB communication technologies.

The present document applies to UWB equipment with an output connection used with a dedicated antenna or UWB equipment with an integral antenna.

Equipment covered by the present document operates in accordance with CEPT ECC/DEC(12)03 [i.2] "*The harmonised conditions for UWB applications onboard aircraft*".

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

**Table 1: Permitted ranges of operation in accordance with CEPT ECC/DEC(12)03 [i.2]**

Permitted range of operation (see note 1)	
Transmit	30 MHz to 10,6 GHz
Receive	30 MHz to 10,6 GHz
Intended ranges of operation (preferred range of operating bandwidth), see note 2	
Transmit	6,0 GHz to 6,650 GHz
Receive	6,0 GHz to 6,650 GHz
Transmit	6,6752 GHz to 8,5 GHz
Receive	6,6752 GHz to 8,5 GHz

NOTE 1: Limits in table 2 clause 4.3.2 and table 3 clause 4.3.3 are to be met.  
NOTE 2: This is the preferred range for the operating bandwidth, as defined in clause 4.3.1.

## 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 <https://docbox.etsi.org/Reference/>.

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

- [1] ETSI EN 303 883 (V1.1.1) (09-2016): "Short Range Devices (SRD) using Ultra Wide Band (UWB); Measurement Techniques".
- [2] ETSI TS 103 361 (V1.1.1) (03-2016): "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".

### 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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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.
- [i.2] CEPT ECC/DEC(12)03 of 2 November 2012: "The harmonised conditions for UWB applications onboard aircraft".
- [i.3] Commission Decision 2014/702/EU of 7 October 2014 amending Decision 2007/131/EC on allowing the use of the radio spectrum for equipment using ultra-wideband technology in a harmonised manner in the Community (notified under document C(2014) 7083).
- [i.4] CEPT/ERC Recommendation 74-01: "Unwanted emissions in the spurious domain".
- [i.5] 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.6] ETSI EN 302 065-1 (V2.1.1): "Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Requirements for Generic UWB applications".
- [i.7] ECC REP 175: "Co-existence study considering UWB applications inside aircraft and existing radio services in the frequency bands from 3.1 GHz to 4.8 GHz and from 6.0 GHz to 8.5 GHz".
- [i.8] ECC REP 93: "Compatibility between GSM equipment on board aircraft and terrestrial networks. Revised ECC Report with Annex G" (May 2008).
- [i.9] ETSI TR 103 181-2: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD) using Ultra Wide Band (UWB);Transmission characteristics Part 2: UWB mitigation techniques".

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