



# UK Interface Requirement 2027.2

UK Radio Interface Requirement 2027.2 for AM/SSB and DSB use  
in the Citizens' Band Radio Service

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## Section 1

# References

- 1.1 ETSI EN 300 433-1 V1.3.1 (2011-07) Electromagnetic compatibility and Radio spectrum Matters (ERM); Citizens' Band (CB) radio equipment; Part 1: Technical characteristics and methods of measurement
- 1.2 ETSI EN 300 433-2 V1.3.1 (2011-07) Electromagnetic compatibility and Radio spectrum Matters (ERM); Citizens' Band (CB) radio equipment; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
- 1.3 ETSI TR 102 626 V1.1.1 (2009-08) Electromagnetic compatibility and Radio spectrum Matters (ERM); System Reference Document; Citizen Band Radio
- 1.4 ECC/DEC (11)03 The harmonised used of frequencies for Citizens' Band (CB) radio equipment ( June 2011)

## Section 2

# Foreword

- 2.1 The Radio Equipment and Telecommunications Terminal Equipment Directive 99/5/EC (R&TTE Directive) was implemented in the United Kingdom (UK) on the 8 April 2000 by The Radio Equipment and Telecommunications Terminal Equipment Regulations 2000, Statutory Instrument 2000 No. 730. In accordance with Articles 4.1 and 7.2 of Directive 1999/5/EC, this UK Interface Requirement contains the requirements for the authorisation and use of AM/SSB and DSB for Citizens' Band radio in the specified frequency bands.
- 2.2 Nothing in this UK Radio Interface Requirement shall preclude the need for equipment to comply with Directive 1999/5/EC.
- 2.3 It is required by the Wireless Telegraphy Act 2006 that no radio equipment is installed or used in the UK except under the authority of a licence granted by or otherwise exempted by regulations made by Ofcom. It is a condition of such a licence or exemption regulations as appropriate that, in order to be installed or used in the UK, the equipment must meet the minimum requirements specified in this UK Interface Requirement for the stated equipment types and for the stated frequency bands. Nothing in this UK Interface Requirement shall preclude equipment from being placed on the market in the UK that complies with the 'essential requirements' specified in Directive 1999/5/EC.
- 2.4 The requirements given in the main body of this UK Radio Interface Requirement will apply to the exemption from licensing of AM/SSB and DSB use for Citizens' Band radio.
- 2.5 This UK Radio Interface Requirement will be revised as necessary, for example to follow:
  - i) current technology developments for reasons related to the effective and appropriate use of the spectrum in particular maximising spectrum utilisation; and
  - ii) changes to the available spectrum allocated for AM/SSB and DSB use in Citizens' Band radio.
- 2.6 All UK Radio Interface Requirements notified under Directive 1998/34/EC will be published and will be made available free of charge from the Ofcom web-site at <http://stakeholders.ofcom.org.uk/spectrum/technical/interface-requirements/>
- 2.7 Further information on this UK Radio Interface Requirement can be obtained from the technical enquiry contact given at the back of this document.

## Section 3

# Minimum requirements for operation within the UK

- 3.1 The minimum requirements in this document are made for reasons related to the effective and appropriate use of the radio spectrum, in particular maximising spectrum utilisation.
- 3.2 This UK Radio Interface Requirement gives a high level description of how the spectrum in the UK is used for AM/SSB and DSB in Citizens' Band radio. It does not prescribe technical interpretation of the 'essential requirements' of Directive 1999/5/EC.
- 3.3 This UK Radio Interface Requirement therefore stipulates the necessary equipment parameters for the use of amplitude modulation modes of operation in Citizens' Band radio in the UK. Tables 3.1 and 3.2 contain the relevant equipment parameters. These taken together with the 'essential requirements' detailed in Article 3.2 of Directive 1999/5/EC constitute the minimum requirements for Citizens' Band radio within the UK. Nothing in this UK Interface Requirement shall preclude equipment from being placed on the market in the UK that complies with the 'essential requirements' specified in Directive 1999/5/EC.
- 3.4 The technical parameters specified in the UK Radio Interface Requirement are applied to achieve the desired level of compatibility within the Mobile service and with other radiocommunications services, whilst promoting enterprise, innovation and competition.
- 3.5 This UK Radio Interface requirement provides the necessary technical information which facilitates access to the mobile spectrum by making clear the assumptions that are made in planning the use of the mobile spectrum in the UK. It is not the intention of this UK Radio Interface Requirement to duplicate or impose any additional 'essential requirements' of the Directive 1999/5/EC on products. Any specified parameters within this document are for the purpose of identifying product options and not as a national de facto product requirement.

**Table 3.1: Minimum requirements for the use of: Amplitude Modulation for Citizens Band equipment operating in the 26.960-27.410 MHz band**

Mandatory (1-9)		
1	Frequency band (or bands)	“ <b>EU/CEPT band</b> ” 26.960 MHz - 27.410 MHz in accordance with Table 3.2
2	Radio service	Citizens' Band
3	Application	CB Radio
4	Channelling modulation	“ <b>EU/CEPT band</b> ” A3E (double side band amplitude modulation)  J3E (single side band suppressed carrier amplitude modulation, using either USB or LSB)
5	Maximum transmit power limit	The maximum effective radiated power for Citizens' Band radio station shall be limited to 4 Watts ( measured as a root mean square) for DSB modulation, and 12 Watts ( measured as a peak envelope power) for SSB modulation
6	Channel occupation rules	Transmission and reception shall take place on the same channel (single-frequency simplex mode with 10 kHz channel spacing).
7	Duplex type/separation	N/A
8	Licensing Regime	Licence exempt
9	Additional essential requirements	N/A
Informative (10-13)		
10	Frequency planning assumptions	N/A
11	Reference	ETSI EN 300 433-1 ETSI EN 300 433-2 ETSI TR 102 626 ECC Decision (11)03
12	Remarks	Information relating to technical requirements for UK and CEPT FM use can be found in IR 2027
13	Notification Number	2014/7/UK

The frequencies indicated in Table 3.1 are the centre frequencies of each channel number. The maximum operating frequency band shall be from 26.960 MHz to 27.410 MHz for the CEPT band.

<b>Table 3.2 Channelling arrangements</b>	
<b>Channel Number</b>	<b>EU/CEPT Band Frequency (MHz)</b>
1	26.965
2	26.975
3	26.985
4	27.005
5	27.015
6	27.025
7	27.035
8	27.055
9	27.065
10	27.075
11	27.085
12	27.105
13	27.115
14	27.125
15	27.135
16	27.155
17	27.165
18	27.175
19	27.185
20	27.205
21	27.215
22	27.225
23	27.255
24	27.235
25	27.245
26	27.265
27	27.275
28	27.285
29	27.295
30	27.305
31	27.315
32	27.325
33	27.335
34	27.345
35	27.355
36	27.365
37	27.375
38	27.385
39	27.395
40	27.405

## **Section 4**

# **Additional performance parameters**

### **(Informative)**

It is recommended that the equipment shall give a visual indication of the channel of operation (1,2,3, etc. ....40) and the frequency band (EU/CEPT) of operation.

The Citizens' Band radio service is not afforded any protection against interference from other authorised radio services.



## Section 5

# Contact details

**Ofcom, Riverside House, 2a Southwark Bridge Road, London, SE1 9HA**

- Technical enquiries to [spectrum.licensing@ofcom.org.uk](mailto:spectrum.licensing@ofcom.org.uk)
- Tel: 020 7981 3131 or 0300 123 1000
- Textphone: 020 7981 3043
- Email: [spectrum.licensing@ofcom.org.uk](mailto:spectrum.licensing@ofcom.org.uk)
- Website: <http://stakeholders.ofcom.org.uk/spectrum/information/licence-exempt-radio-use/citizens-band-radio/technical/>

## Section 6

# Document history

<b>Version</b>	<b>Date</b>	<b>Changes</b>
1.0	June 2014	First Published