

UK Interface Requirement 2027

UK Radio Interface Requirement 2027 for Citizens' Band (CB)
radio for use in the Citizens' Band Radio Service

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Section 1

References

- 1.1 ETSI EN 300 135-1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Angle-modulated Citizens Band radio equipment (CEPT PR 27 Radio Equipment); Part 1: Technical characteristics and methods of measurement.
- 1.2 ETSI EN 300 135-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Angle-modulated Citizens Band radio equipment (CEPT PR 27 Radio Equipment); Part 2: Harmonized EN covering essential requirements under article 3.2 of R&TTE Directive.
- 1.3 MPT 1382 Performance Specification: Angle-modulated 27 MHz radio equipment for use in the Citizen's Band Radio Service (Revised and Reprinted December 1997)

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 licensing and use of 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 1949 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 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 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://www.ofcom.org.uk/radiocomms/ifi/tech/interface_req/.
- 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 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 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: Citizens Band equipment operating in the 26.965-27.405MHz, and 27.60125-27.99125 MHz bands

Mandatory (1-9)		
1	Frequency band (or bands)	<p>“EU/CEPT band”: 26.965 MHz - 27.405 MHz in accordance with Table 3.2</p> <p>“UK band”: 27.60125 MHz - 27.99125 MHz in accordance with Table 3.2</p>
2	Radio service	Citizens’ Band
3	Application	Citizens Band radio communication
4	Channelling modulation	G3E, - (Angle modulation with appropriate Pre-emphasis and de-emphasis) G2D
5	Maximum transmit power limit	<p>In the case of equipment with a non-integral antenna, the maximum transmitter RF carrier power output is 4W.</p> <p>In the case of equipment with an integral antenna, both the maximum transmitter carrier power and the effective radiated power are limited to 4W.</p>
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 300 135-1 ETSI EN 300 135-2 MPT 1382 Performance Specification [1.3]
12	Remarks	N/A
13	Notification Number	2006/424/UK

Table 3.2 Channelling arrangements

Channel Number	EU/CEPT Band Frequency (MHz)	UK Band Frequency (MHz)
1	26.965	27.60125
2	26.975	27.61125
3	26.985	27.62125
4	27.005	27.63125
5	27.015	27.64125
6	27.025	27.65125
7	27.035	27.66125
8	27.055	27.67125
9	27.065	27.68125
10	27.075	27.69125
11	27.085	27.70125
12	27.105	27.71125
13	27.115	27.72125
14	27.125	27.73125
15	27.135	27.74125
16	27.155	27.75125
17	27.165	27.76125
18	27.175	27.77125
19	27.185	27.78125
20	27.205	27.79125
21	27.215	27.80125
22	27.225	27.81125
23	27.255	27.82125
24	27.235	27.83125
25	27.245	27.84125
26	27.265	27.85125
27	27.275	27.86125
28	27.285	27.87125
29	27.295	27.88125
30	27.305	27.89125
31	27.315	27.90125
32	27.325	27.91125
33	27.335	27.92125
34	27.345	27.93125
35	27.355	27.94125
36	27.365	27.95125
37	27.375	27.96125
38	27.385	27.97125
39	27.395	27.98125
40	27.405	27.99125

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 or UK) of operation.

The Citizens' Band radio service is subject to interference and is not afforded any protection.

Section 5

Contact details

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

- Technical enquiries to licensingcentre@ofcom.org.uk
- Tel: 020 7981 3131
- Fax: 020 7981 3333
- Email: licensingcentre@ofcom.org.uk
- Website: http://www.ofcom.org.uk/radiocomms/ifi/tech/interface_req/?a=87101

Section 6

Document history

Version	Date	Changes
1.0	01 01 2001	First Published
1.1	01 07 2001	Second published version
2.0	01 08 2006	Revised version pending outcome of UK consultation
3.0	14 11 2006	Removed "draft"