
UK Interface Requirement (IR) 2027.2

AM/SSB and DSB use in the Citizens' Band Radio Service

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1. Forward

- 1.1 The Radio Equipment Regulations 2017 (SI 2017/1206) set out the obligations on economic operators for placing radio equipment on the market. This UK Interface Requirement contains the requirements for contains the requirements for the authorisation of AM/SSB and DSB for Citizens' Band radios in the specified frequency bands.
- 1.2 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 the equipment must meet the minimum requirements specified in this UK Interface Requirement for the stated equipment types and for the stated frequency bands.
- 1.3 The requirements given in the main body of this UK Radio Interface Requirement will apply to the authorisation of AM/SSB and DSB for Citizens' Band radio.
- 1.4 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 public wireless networks.
- 1.5 All UK Radio Interface Requirements will be published and will be made available free of charge from the Ofcom website.
- 1.6 Further information on this UK Radio Interface Requirement can be obtained from the technical enquiry contact given at the back of this document.

2. Minimum equipment requirements for operation within the UK

- 2.1 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.
- 2.2 This UK Radio Interface Requirement gives a high-level description of how the spectrum in the UK is used AM/SSB and DSB for Citizens' Band radio. It does not prescribe technical interpretation of the 'essential requirements' of the Radio Equipment Regulations 2017 .
- 2.3 This UK Radio Interface Requirement therefore stipulates the necessary equipment parameters for the licensing or licence exemption of AM/SSB and DSB for Citizens' Band radio in the UK. Table 2.1 contains the relevant equipment parameters. These together with the 'essential requirements' detailed in Regulation 6 of Radio Equipment Regulations 2017 constitute the minimum equipment requirements for short range devices within the UK.
- 2.4 The technical parameters specified in the UK radio Interface Requirement are applied to achieve the desired level of compatibility within AM/SSB and DSB for Citizens' Band radio and with radiocommunications services, whilst promoting enterprise, innovation and competition.
- 2.5 This UK Radio Interface requirement provides the necessary technical information which facilitates access to AM/SSB and DSB for Citizens' Band radio spectrum by making clear the assumptions that are made in planning the use of AM/SSB and DSB for Citizens' Band radio in the UK. It is not the intention of this UK Radio Interface Requirement to duplicate or impose any additional 'essential requirements' of the Radio Equipment Regulations 2017 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 2.1

Minimum requirements for the use of: Amplitude Modulation for Citizens Band equipment operating in the 26.960 MHz - 27.410 MHz band		
Mandatory (1-10)		
1	Radiocommunication Service	Mobile
2	Application	CB Radio
3	Frequency	“EU/CEPT band” 26.960 MHz - 27.410 MHz in accordance with Table 2.2
4	Channelling	See Table 2.2
5	Occupied bandwidth	-
6	Direction/separation	-
7	Maximum Transmit Power / Power Density	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.
8	Channel access and occupation rules	Transmission and reception shall take place on the same channel (single- frequency simplex mode with 10 kHz channel spacing).
9	Authorisation regime	Licence exempt
10	Additional essential requirements	-
Informative (11-15)		
11	Frequency Planning	-
12	Planned changes	-
13	Reference	ETSI EN 300 433-1, ETSI EN 300 433-2 ETSI TR 102 626, ECC Decision (11)03
14	Notification	2014/7/UK
15	Remarks	Information relating to technical requirements for UK and CEPT FM use can be found in IR 2027.

Table 2.2 Channelling Arrangements

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.

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

3. 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.

4. References

Reference	Name
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
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 Radio Equipment Directive (Directive 2014/53/EU)
ETSI TR 102 626 V1.1.1 (2009-08)	Electromagnetic compatibility and Radio spectrum Matters (ERM); System Reference Document; Citizen Band Radio
ECC/DEC (11)03	The harmonised used of frequencies for Citizens' Band (CB) radio equipment (June 2011)

5. Contact details

Ofcom Spectrum Licensing Team

PO Box 1285,

Warrington,

WA1 9GL

Email: spectrum.licensing@ofcom.org.uk

Tel: 0300 123 1000 or 020 7981 3131

Website: [Ofcom | Spectrum](#)

6. Document history

Version	Date	Changes
1.0	June 2014	Document published
2.1	June 2021	Format update