



Czech Telecommunication Office
with headquarters at Sokolovská 219, Prague 9
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On the basis of public consultations, in compliance with the Act No. 500/2004 Coll., the Administrative Procedure Code, as subsequently amended, under Section 130 of the Act 127/2005 Coll., on electronic communications and on amendment to certain related acts (the Electronic Communications Act), as subsequently amended (hereinafter “the Act”) and on the basis of decision of the Council of the Czech Telecommunication Office (hereinafter the “Office”) under Section 107(8)(b)(2) of the Act and in order to implement Sections 9 and 12 of the Act, the Office as the appropriate state administration body under Section 108(1)(b) of the Act hereby issues this Measure of General Nature

General Authorisation No. VO-R/12/09.2010-12 for the use of radio frequencies and for the operation of equipment for wideband data transmission in the 2.4 GHz – 66 GHz bands.

Article 1
Introductory Provisions

The apparatus operating conditions¹⁾²⁾, relating to natural persons’ or legal entities’ use of radio frequencies and to the operation of radio transmitting equipment for wideband data transmission³⁾ (hereinafter “the stations”) are set out in the Act and in this General Authorisation under Section 10(1) of the Act⁴⁾.

Article 2
Actual Conditions

The actual conditions related to Section 10(1)(n) of the Act are as follows:

- a) the station may be operated without individual authorisation for the use of radio frequencies;
- b) the technical parameters of the stations are:

¹⁾ Sections 73 to 75 of the Act.
²⁾ ČSN ETSI EN 300 328 – Electromagnetic Compatibility and Radio Spectrum Matters (ERM) – Wideband transmission Systems – Data transmission equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniques.
ČSN ETSI EN 301 893 – Broadband radio access networks (BRAN) – High performance RLAN 5 GHz – Harmonised EN covering essential requirements of Article 3.2 of the R&TTE Directive.
ČSN ETSI EN 302 567 – Broadband radio access networks (BRAN) – 60 GHz Multiple-Gigabit WAS/RLAN Systems.
³⁾ OFDM – orthogonal frequency division multiplexing.
⁴⁾ This General Authorisation proceeds from the Recommendation of the European Radiocommunications Committee (ERC) of the European Conference of Postal and Telecommunications Administrations (“CEPT”) No. CEPT/ERC/REC 70-03 relating to the use of Short Range Devices (SRD) in the version dated June 1, 2010. This General Authorisation follows also the Commission Decision No. 2010/368/EU dated June 30, 2010 amending Decision 2006/771/EC on harmonisation of the radio spectrum for use by short-range devices.

This is an unofficial translation. The legally binding text is the original Czech version.

Ref.	Frequency band	Radiated power	Maximum e.i.r.p. density	Other conditions
a	2400.0–2483.5 MHz	100 mW e.i.r.p. ²⁾	10 mW/1 MHz	systems using DSSS ⁵⁾ or OFDM ³⁾ techniques
			100 mW/100 kHz	systems using FHSS techniques ⁶⁾
b	5150–5250 MHz	200 mW mean e.i.r.p. ^{2), 7)}	10 mW/MHz (mean spectral density in any 1 MHz band)	only indoor use ⁸⁾
c	5250–5350 MHz	200 mW mean e.i.r.p. ^{2), 7)}	10 mW/MHz (mean spectral density in any 1 MHz band)	only indoor use ⁸⁾
d	5470–5725 MHz	1 W mean e.i.r.p. ^{2), 7)}	50 mW/MHz (mean spectral density in any 1 MHz band)	—
e	17.1–17.3 GHz	100 mW mean e.i.r.p. ⁷⁾	—	—
f	57–66 GHz	40 dBm mean e.i.r.p. ⁷⁾	13 dBm/MHz (mean spectral density)	fixed outdoor installation are not allowed

- c) the station shall observe the maximum e.i.r.p. radiated power and the maximum mean spectral density at any combination of the transmitter output power and the antenna used;
- d) the stations may not be operated with additional high-frequency power amplifiers and with converters;
- e) stations in the *c* and *d* bands shall employ automatic transmitter power control, which provides on average the interference mitigation factor at least 3 dB on the maximum permitted output power of the systems, if automatic power control is not employed, the maximum permitted mean e.i.r.p. and the corresponding limit of the mean e.i.r.p. density for bands *c* and *d* must be reduced by 3 dB;
- f) in the *c*, *d* and *f* bands shall be used the mitigation techniques that give at least the same protection level as the techniques described in the harmonised standards⁹⁾., In *c* and *d* bands the mitigation techniques have to equalise the probability of selecting a specific channel from all available channels in order to ensure, on average, a near-uniform spread of spectrum loading and in order to ensure compatible operation with the radio determination systems;
- g) the stations are operated on shared frequencies;
- h) the operation of the station is not protected against interference from the transmitting radio stations of the other radiocommunication service operated on the basis of an individual

⁵⁾ DSSS – Direct Sequence Spread Spectrum.

⁶⁾ FHSS – Frequency Hopping Spread Spectrum.

⁷⁾ Mean equivalent isotropic radiated power (e.i.r.p.) refers to the e.i.r.p. during the transmission burst, which corresponds to the highest power, if power control is implemented.

⁸⁾ "Indoor use" is intended to mean use inside a domestic or commercial building and in similar places, e.g. in an aircraft, here the shielding will typically provide the necessary attenuation to facilitate sharing with other services.

⁹⁾ The Act No. 22/1997 Coll., on technical requirements on products and on amendments of some laws as subsequently amended.

The Government Order No. 426/2000 Coll., on technical requirements for radio equipment and telecommunications terminal equipment as amended.

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authorisation for using radio frequencies, or by other stations for wideband data transmission, the possible interference issues are settled on principle of mutual agreement between the natural persons or legal entities, in case the agreement fails, the procedure based on Section 100 of the Act shall be applied, or the operation of the station shall be terminated by the user that put the interfering station in the operation later;

i) the station may be neither electrically nor mechanically modified.

Article 3

Final Provisions

Also considered as a station complying with the Government Order No. 426/2000 Coll., laying down the technical requirements for radio equipment and telecommunication terminal equipment, as amended, is any station for which the Office decided on approval of the radio equipment in accordance with Section 10 of Act No. 151/2000 on Telecommunications and on Amendment to Other Acts, as amended, provided that such a station was placed on the market before 1 April 2003.

Article 4

Repealing Provisions

This is to repeal General Authorisation No. VO-R/06.2010-9 for the use of radio frequencies and for the operation of equipment for wideband data transmission based on the principle of spread spectrum or OFDM in the 2.4 GHz – 66 GHz bands, dated June 2, 2010, published in Issue 11/2010 of Telecommunications Bulletin.

Article 5

Effect

This General Authorisation shall come into effect on the fifteenth day after its publication in the Telecommunications Bulletin.

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Explanatory Memorandum

To implement Sections 9 and 12 of the Act, the Office issues General Authorisation No.VO-R/12/09.2010-12 for the use of radio frequencies and for the operation of equipment for wideband data transmission in the 2.4 GHz – 66 GHz bands.

This General Authorisation is based on the principles set out in the Act and also on the frequency plans and harmonisation objectives of the European Communities, and it replaces the General Authorisation No.VO-R/12/06.2010-9 which is repealed by Article 4 of the General Authorisation.

Article 2 contains the operating conditions of equipment for wideband data transmission in the 2.4 GHz – 66 GHz bands. These conditions are based on the decisions of the European Conference of Postal and Telecommunications Administrations (CEPT), particularly follow the Recommendation CEPT ERC/REC 70-03 – relating to the use of Short Range Devices (SRD), on Directive No. 1999/5/EC of the European Parliament and of the Council on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity, on the Commission Decision 2010/368/EU dated June 30, 2010 as well as on the requirements resulting from exercising radio spectrum administration.

The issue of the General Authorisation No.VO-R/12/06.2010-9 preceded the Commission Decision No. 2010/368/EU listed above. On June 1, 2010, next in line the European Radiocommunications Committee issued the up-to-date edition of CEPT ERC/REC 70-03 as listed above. In order to implement these both Recommendation and Decision the Office implemented the changes in accordance with Section 12 of the Act in this General Authorisation as distinct from the General Authorisation No. VO-R/12/06.2010-9 specified in Article 2, the table letter b) band f: the radiated power was set uniformly at 40 dBm mean e.i.r.p., mean spectral density was set at 13 dBm/MHz irrespective of indoor or outdoor use. In connection with foregoing terms the use of mitigation technology was in Article 2, letter f) extended also on the *f* band.

Article 3 stipulates the possibility of operation of the apparatus placed on the market before 1 April 2003.

Article 4 declares the repeal of General authorisation VO-R/12/06.2010-9.

Article 5 stipulates the effect of General Authorisation in accordance Section 124 (2) of the Act.

On the basis of Section 130 of the Act and in accordance with the Czech Telecommunication Office's Rules for consultations at the discussion site, the Office published on 16 August 2010 its draft General Authorisation No. VO-R/12/XX.2010-Y for the use of radio frequencies and for the operation of equipment for wideband data transmission in the 2.4 GHz – 66 GHz bands and an invitation for submitting comments at the discussion site.

During the public consultation the Office received no comments.

On behalf of the Council
of the Czech Telecommunication Office
Jana Fürstová

Member of the Council
of the Czech Telecommunication Office
<signed>