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## **Class License for the Short Range Devices**

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The Supreme Council of Information & Communication Technology “ictQATAR”

**30 May, 2010**

## 1. Relevant Legal Provisions

- 1.1 Article (15) of the Telecommunications Law No. (34) of 2006 states that no person shall operate any radio-communications equipment or make any use of radio frequencies, without a Radio Spectrum License or a Radio Frequency Authorisation from the Supreme Council of Information and Communication Technology “ictQATAR”.
- 1.2 In accordance with Article (31) of the Executive Telecommunications By-Law No. (1) of 2009, ictQATAR shall establish the terms and conditions of all Licenses and shall monitor compliance by Licensees with the terms and conditions of their Licenses, and ictQATAR may take any measures and procedures in this regard. ictQATAR may establish the criteria through Radio Spectrum Regulations in order to determine what radio spectrum should be available for common use and this may be awarded by means of a Class License.

## 2. Grant of License

- 2.1 ictQATAR hereby grants this Class License pursuant to the above-mentioned articles of the Telecommunications Law. This Class License enables any person to possess, use, operate, install and use Short Range Device(s) (hereinafter referred to as “SRD”) without that person having to apply for this Class license. Such person is hereinafter referred to as the “Licensee”.
- 2.2 The Licensee is hereby authorized to import and operate SRDs within the State of Qatar and use the frequency(s) or the frequency band(s) assigned in Annexure (2) of this Class License on a non-exclusive basis provided that the Licensee operates in the authorized frequency bands and transmits the corresponding output power levels as stated in Annexure (2) of this Class and provided that type approval is obtained from ictQATAR in accordance with section (6) of this License.
- 2.3 The Licensee shall, in addition to complying with the terms and conditions of this Class License and its annexures, comply with the provisions of the Telecommunications Law, relevant legislation and any regulations decisions, orders, rules, instructions and notices issued by ictQATAR (hereinafter, collectively referred to as the “Applicable Regulatory Framework”).
- 2.4 This Class License provides the minimum technical and regulatory requirements and operating specifications of SRD across different types of applications. Annexure (2)

contains the list of various types of applications for SRDs, the applicable frequencies, Field Strength / RF Output Power, test reference and other related information which the Licensee must comply with in order to import and/or use SRDs.

### 3. Definitions

The words and expressions in this License shall have the meanings ascribed to them in the Telecommunications Law, the Applicable Regulatory Framework and this Class License, including the definitions set out in Annexure (1).

### 4. Operation of the Short Range Devices

- 4.1 The Licensee is hereby authorised to use and operate SRDs provided that the Licensee operates such devices within the authorised frequency bands or frequencies within the corresponding output power levels stipulated in Annexure (2) of this Class License.
- 4.2 The use of any SRDs above the maximum power is not allowed. However, if the Licensee wishes to use any of the SRDs above the permitted maximum limit, the Licensee must follow a separate license application procedure and must obtain the required spectrum license from ictQATAR pursuant to ictQATAR's regulations as published on its official website at this following link: <http://www.ict.gov.qa/output/Page623.asp>
- 4.3 Use of SRD as stipulated in Annexure (2) is intended to operate in unprotected and shared frequency bands. The Licensee shall ensure that its operation shall not cause interference with other authorized radio-communications services and must tolerate any interference caused by other radio-communication services, electrical or electronic equipment.
- 4.4 The SRD shall not be constructed with any external or readily accessible control that permits the adjustment of its operation in a manner inconsistent with this Class License, in particular Annexure (2) of it.
- 4.5 ictQATAR may amend or update Annexure (2) of this Class License in order to respond to any new developments in the market or technology advancements. The Licensee shall comply with any new amendments introduced to Annexure (2) as published on ictQATAR's official website from time to time at this following link: [www.ictqatar.gov.qa](http://www.ictqatar.gov.qa)

## 5. Radio Spectrum

- 5.1 The Licensee is hereby authorized to use the specified radio frequencies set out in Annexure (2) subject to the terms and conditions of this Class License, its annexures and the Applicable Regulatory Framework. This Class License does not grant the Licensee any ownership interest or property rights in the radio frequencies.
- 5.2 ictQATAR may amend or cancel spectrum allocations or assignments, in accordance with the Applicable Regulatory Framework or the National Frequency Allocation Plan of Qatar (NFAP).
- 5.3 In accordance with Article (17) of the Telecommunications Law, the Licensee shall not misuse the licensed radio spectrum nor use it for an unauthorized purpose.

## 6. Type Approval

- 6.1 The SRD(s) prior to being imported for marketing or sold in the State of Qatar shall be type approved by ictQATAR in accordance with the “Type Approval Policy for Radio Equipment and Telecommunications Terminal Equipment” and the “Type Approval Guidelines for Radio Equipment and Telecommunications Terminal Equipment” published on ictQATAR’s official website.
- 6.2 The Licensee shall not manufacture or import for the purposes of marketing, sell or distribute SRDs that are not type approved by ictQATAR.
- 6.3 In accordance with the preceding paragraphs (6.1) and (6.2), the Licensee shall ensure that the SRDs are type approved in accordance with the list of approved telecoms equipment by ictQATAR published on ictQATAR’s official website.
- 6.4 If the SRD in question is not stated in the list of approved equipment by ictQATAR, then that person must apply, request and obtain type approval certificate from ictQATAR.
- 6.5 Companies or persons wishing to sell or import SRDs for marketing purposes or commercially deal with the SRDs must register with ictQATAR and obtain from it an “Approval for dealing with telecommunication equipment and related activities” and must renew their registration annually in accordance with the procedures published

on ictQATAR's official website at this link: <http://www.ict.gov.qa/output/Page627.asp>. After obtaining the type approval along with the Approval for dealing from ictQATAR, the Licensee may import and/or sell the devices in the State of Qatar.

- 6.6 The SRD(s) may be imported or used by any person without seeking type approval if to be used for private use only and provided that it is in accordance with the standards adopted by ictQATAR.

### **7. Safety Measures and Standards**

The Licensee shall implement any measures prescribed by the Applicable Regulatory Framework and other safety measures regarding the installation, operation and usage of all SRDs as stipulated in the above-mentioned "Type Approval Policy for Radio Equipment and Telecommunications Terminal Equipment" and the "Type Approval Guidelines for Radio Equipment and Telecommunications Terminal Equipment".

### **8. License Term**

This License shall remain in force provided that the Licensee complies with the terms and conditions of this Class License and the Applicable Regulatory Framework.

### **9. Fees**

- 9.1 There are neither License fees nor radio spectrum fees associated with this Class License.
- 9.2 The Licensee shall remain responsible for all costs, expenses or any other financial commitments arising out of this Class License and/or use of the SRDs in accordance with the Applicable Regulatory Framework.

### **10. Other Compliance Obligations of the Licensee**

- 10.1 The Licensee shall, at all times, comply with the terms and conditions stated herein and the Applicable Regulatory Framework, including any amendments thereto that may be adopted by ictQATAR from time to time.

- 10.2 The Class Licensee shall comply with any requirements stipulated under the laws of the State of Qatar including the regulations and decisions issued by the relevant authorities in accordance with the applicable laws.
- 10.3 The Licensee shall obtain any other necessary approvals as may be required by other competent authorities in the State of Qatar in accordance with the applicable laws of the State of Qatar.

### **11. Breach of License**

- 11.1 The Licensee shall be subject to penalties as provided for in the Applicable Regulatory Framework if the Licensee fails to comply with the terms and conditions set out herein. Any Failure will result in ictQATAR taking enforcement action against the Licensee in accordance with the Applicable Regulatory Framework including initiating criminal proceedings in accordance with Articles (66), (67), (68) and (70) of the Telecommunications Law.
- 11.2 Without prejudice to any other enforcement powers of ictQATAR or specific penalties set out in the Applicable Regulatory Framework, the Licensee can lose its right to own, import and operate SRDs if the Licensee commits repeated violations of this Class license terms and/or the Applicable Regulatory Framework.

### **12. Security Requirements**

The Licensee shall comply with the requirements of the authorized agencies of the State of Qatar relating to national security and with the directions of governmental bodies in cases of public emergencies, and it shall implement the orders and instructions issued by ictQATAR pertaining to same.

### **13. Access to Premises**

The employees of ictQATAR who are vested with powers of judicial seizure in accordance with Article (63) of the Telecommunications Law shall seize and prove crimes committed in violation of the rules of the Telecommunications Law.

In this respect, the Licensee shall allow them to enter and inspect, in accordance with the law, the related premises, have access to records and documents and inspect equipment

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and SRD(s) or any other related things and request data or clarifications as they deem necessary.

### **14. Request of Information**

In accordance with Chapter (13) of the Executive Telecommunications By-Law, ictQATAR may require the Licensee to provide to it information necessary for exercising its powers, and the Licensee shall provide the information to ictQATAR on request and in the form, manner and time specified by ictQATAR.

### **15. Modification and Amendment**

ictQATAR, based upon its discretion, may modify, by deletion or addition, any terms and conditions this Class License. The amendments shall be published on the official website of ictQATAR. The Licensee is under the obligation to comply with any such amendments.

### **16. Assignment of License**

In accordance with the provisions of the Applicable Regulatory Framework, the Licensee may not assign or otherwise transfer this Class License to another person without the prior written approval of the ictQATAR.

### **17. Governing Law and Language of License**

This Class License is rendered in the Arabic and English languages. The Arabic version of this License is the binding version. The License shall be governed by and interpreted in accordance with the laws of the State of Qatar.

## ANNEXURE (1) – DEFINITIONS

The following terms and expressions shall have the meanings assigned to each of them:

**Applicable Regulatory Framework:** the Telecommunications Law and its By-Law and any other rules and regulations, decisions, orders, policies, guidelines, rules, instructions or notices issued by ictQATAR as well as this license terms and conditions and the relevant laws of the State of Qatar.

**Class License:** The License granted in accordance with the provisions of the Telecommunications Law for a certain class of persons and/or activities without that person having to apply for the License.

**Frequency Band:** a portion of the radio spectrum which starts at a particular frequency and ends at another particular frequency.

**Harmful Interference:** means interference which impairs the functioning of a radio communications or which materially degrades or obstructs or repeatedly interrupts radiocommunication.

**Industrial, Scientific and Medical (ISM) applications (of radio frequency energy):** Operation of equipment or appliances designed to generate and use locally radio frequency energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of telecommunications.

**National Spectrum Plan:** The plan established for allocation and use of radio spectrum by the concerned entities.

**Person:** a natural or juridical person of any type or form.

**Radio Spectrum:** Radio frequencies capable of being used in radio communications in accordance with the publications of the International Telecommunications Union.

**Short Range Devices (SRD):** The term SRD is intended to cover the radio transmitters which provide either uni-directional or bi-directional communications, which have low capability of causing interference to other radio equipment. SRDs are used with either integral, dedicated or external antennas, and all modes of modulation are permitted subject to relevant standards.

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Applications include, but not exhaustively, telecommand, alarms data communication, meter reading, asset tracking, aids for hearing, movement detection and alert, remote controls and inductive systems.

**Telecommunications Law:** Telecommunications Law of the State of Qatar No. (34) of 2006.

**Telecommunications Executive By-Law:** the Executive Telecommunications By-Law No. (1) of 2009.

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<b><u>ANNEXURE (2)</u></b>					
<b>Technical Requirements for Short Range Devices (SRD)</b>					
Item	Typical Application Type	Authorised Frequency Bands / Frequencies (channel spacing)	Maximum Field Strength / RF Output power	Harmonised Standard Reference	Remarks (Emission type, duty cycle, other restrictions etc)
<b>A. NON SPECIFIC SHORT RANGE DEVICE</b>					
1	ISM	6765.00 kHz – 6795.00 kHz	42 dBµA/m at 10 m	FCC Part 15 EN 300 220 EN 300 330	
2	ISM	13.5530 MHz – 13.5670 MHz	42 dBµA/m at 10 m	FCC Part 15 EN 300 220 EN 300 330	
3	ISM, CB	26.9570 MHz – 27.4050 MHz	42 dBµA/m at 10 m e.r.p 10mW	EN 300 220 EN 300 330	
4	ISM	40.66 MHz – 40.70 MHz	e.r.p 10mW	EN 300 220	

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5	ISM	433.05 MHz – 434.79 MHz	e.r.p 10mW	EN 300 220	
6		868.00 MHz – 868.60 MHz	e.r.p 25 mW	EN 300 220	
7		868.70 MHz – 869.20 MHz	e.r.p 25 mW	EN 300 220	
8		869.40 MHz – 869.65 MHz	e.r.p 100 mW	EN 300 220	
9		869.70 MHz – 870.00 MHz	e.r.p 25 mW	EN 300 220	
10	SRC/DECT	1880.00 MHz – 1900.00 MHz	e.i.r.p 100 mW	EN 300 220	
11	ISM, WLAN, Bluetooth	2400.00 MHz – 2483.50 MHz	e.i.r.p 10 mW	EN 300 440 EN 300 328	Indoor use only
12	WLAN	5470.00 MHz – 5725.00 MHz	e.i.r.p 25 mW	EN 300 440	Indoor use only
13	ISM, WLAN	5725.00 MHz – 5875.00 MHz	e.i.r.p 25 mW	EN 300 440	Indoor use only
14	ISM	24.00 GHz – 24.2500 GHz	e.i.r.p 100 mW	EN 300 440	
15	ISM	61.00 GHz – 61.50 GHz	e.i.r.p 100 mW	FCC Part 15	
16	ISM	122.00 GHz – 123.00 GHz	e.i.r.p 100 mW		
17	ISM	244.00 GHz – 246.00 GHz	e.i.r.p 100 mW		

## B. RADIODETERMINATION APPLICATION

Including SRD radar systems, Equipment for Detecting Movement and Alert. Radiodetermination is defined as the determination of the position, velocity and/or other characteristics of an object, or the obtaining of information relating to these parameters, by means of the propagation properties of radio waves.

18		10.50 GHz – 10.60 GHz	e.i.r.p 500 mW	EN 300 440	
19		24.05 GHz – 24.25 GHz	e.i.r.p 100 mW	EN 300 440 EN 302 288	
20		57.00 GHz – 64.00 GHz	e.i.r.p -41.3 dBm/MHz	EN 302 372	
21		75.00 GHz – 85.00 GHz	e.i.r.p -41.3 dBm/MHz	EN 302 372	

## C. ROAD TRANSPORT AND TRAFFIC TELEMATICS (RTTT)

22		76.00 GHz – 77.00 GHz	55 dBm peak e.i.r.p -50 dBm average power - 23.5 dBm	EN 301 091	For puls radar only. Vehicle and infrastructure radar systems
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## D. INDUCTIVE APPLICATIONS

Include for example car immobilizers, animal identification, alarm systems, cable detection, waste management, personal identification, wireless voice links, access control, proximity sensors, antitheft systems including RF anti-theft induction systems, data transfer to handheld devices, automatic article identification, wireless control systems and automatic road tolling.

23		9.00 kHz – 148.50 kHz	72 dB $\mu$ A/m at 10m	EN 302 291 EN 300 330	
24	Security device	3155.00 kHz – 400.00 kHz	13.5 dB $\mu$ A/m at 10 m	EN 302 291 EN 300 330	
25		6765.0 kHz – 6795.0 kHz	42 dB $\mu$ A/m at 10 m	EN 302 291 EN 300 330	
26		7400.0 kHz – 8800.0 kHz	9 dB $\mu$ A/m at 10 m	EN 302 291 EN 300 330	
27		13.553 MHz – 13.567 MHz	60 dB $\mu$ A/m at 10 m	EN 302 291 EN 300 330	
28	Wireless microphone/ Remote Control	26.957 MHz – 27.283 MHz	42 dB $\mu$ A/m at 10 m	EN 302 291	

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			e.r.p 10mW	EN 300 330	
29	Wireless microphone	830.00 MHz – 850.00 MHz	e.r.p 10mW	EN 300 220	
<p><b>E. MODEL CONTROL</b></p> <p>Solely for the purpose of controlling the movement of the model (e.g. in the air, on land or over or under the water surface.)</p>					
30		26MHz, 27MHz, 76MHz;	e.r.p 100 mW	EN 300 220	
<p><b>F. RADIO FREQUENCY IDENTIFICATION APPLICATIONS</b></p> <p>Include for example automatic article identification, asset tracking, alarm systems, waste management, personal identification, access control, proximity sensors, anti-theft systems, location systems, data transfer to handheld devices and wireless control systems.</p>					
31		13.5530 MHz – 13.5670 MHz	60 dB $\mu$ A/m at 10 m	EN 302 291 EN 300 330	
32		2446.00 MHz – 2454.00 MHz	e.i.r.p 500 mW	EN 300 440	Power levels above 500 mW (max e.i.r.p 4W) are restricted to use inside the boundaries of a building and the duty cycle $\leq$ 15 % in any 200 ms period (30 ms

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					on /170 ms off)
<b>G. WIRELESS APPLICATIONS IN HEALTHCARE &amp; LISTENING DEVICES</b>					
33	Active Medical Implant	401.00 MHz – 406.00 MHz (25kHz)	e.r.p 25 $\mu$ W	EN 301 839 EN 302 537	
34	Active Medical Implant	9.00 kHz – 315.00 kHz	30 dB $\mu$ A/m at 10 m	EN 302 195	Duty Cycle <10%
35	Medical membrane Implants	30.00 MHz – 37.50 MHz	e.r.p 1 m W	EN 302 510	Duty Cycle <10%
36	Aids for hearing impaired	169.40 MHz – 174.00 MHz (50kHz)	e.r.p 10 m W	EN 300 422	
<b>H. WIRELESS AUDIO APPLICATIONS</b>					
<p>Include for example cordless loudspeakers; cordless headphones; cordless headphones for portable use, for example portable CD, cassette or radio devices carried on a person; cordless headphones for use in a vehicle, for example for use with a radio or mobile telephone etc; in-ear monitoring, for use with concerts or other stage productions.</p>					
37	SRC/Cordless	47.0000 MHz	e.r.p 10 mW	EN 301 357	

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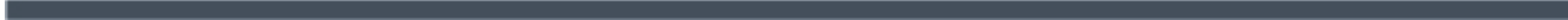
38	SRC/Cordless	43.00 MHz, 46.00 MHz, 49.0000MHz;	e.r.p 10 mW	EN 301 357	
39	SRC/Cordless	2400.00 MHz – 2483.50 MHz	e.r.p 10 m W	EN 301 357	
40		863.00 MHz – 865.00 MHz	e.r.p 10 m W	EN 301 357 EN 300 220	
41		1795.00 MHz – 1800.00 MHz	e.i.r.p 20 m W	EN 301 357	
42		87.500 MHz – 108.00 MHz (200kHz)	e.r.p 5 n W	EN 301 357	
<b>I. VEHICLE FITTED RADIO PRODUCTS</b>					
43	Vehicle Immobilizer	133.00 kHz	60 dB $\mu$ A/m at 10 m	EN 300 220	Modulation type: ASK, FSK
44	Passive anti theft system PATS	134.00 kHz	70 dB $\mu$ A/m at 10 m e.r.p. 10 mW (10 dBm)	EN 300 220	Class of emission: F1D Modulation type: FSK
45	Remote Keyless Entry system /Smart Key System	433.72 MHz – 434.12 MHz	75.6 dB $\mu$ A/m at 3 m e.r.p. 0.1 mW	EN 300 220	Modulation type: ASK, FSK

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46	Smart Key System	133.00 kHz	95 dB $\mu$ A/m at 3 m	EN 300 220	Modulation type: ASK
47	TPMS (Tyre Pressure Monitoring System)	433.92 MHz	e.r.p 1 m W		Modulation type: FSK
48	Vehicle paging alarm	458.95 MHz	70 dB $\mu$ A/m at 10 m e.r.p 10 mW (10 dBm)	EN 300 220	Class of emission: F1D Modulation type: FSK
49	EMV (Display) with Bluetooth	2400.00 MHz – 2483.50 MHz	e.i.r.p 2.51 mW	EN 300 328	Modulation type: GFSK, $\pi/4$ DQPSK, 8DPSK
50	Intrusion sensor	2450.00 MHz	e.i.r.p 1 m W	EN 300 328	
51	Intrusion sensor	24.15 GHz	e.i.r.p 10 m W	EN 300 440	
52	Millimeter Wave Radar	76.00 GHz – 77.00 GHz	10 W to 15 W Peak e.i.r.p 316.22 W Peak e.i.r.p	EN 301 091	Automatic cruise control, collision warning system for vehicle
53	Navigation Device (GPS Receiver)	1575.42 MHz			
54	Glass Breakage sensor (Alarm)	13.5530 MHz – 13.5670 MHz	60 dB $\mu$ A/m at 10 m	EN 302 291	

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