Communications Regulatory Authority
State of Qatar

هيئة تنظيم الاتصالات
دولة قطر

Class License for Short Range Devices (SRD)

Version 3

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Prepared by Spectrum Management Department

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Dated the 16th of July 2017

For the Communications Regulatory Authority (CRA)
Signed by

Mohammed Ali Al-Mannai
President of the Communications Regulatory Authority

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 Authorization 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.

1.3 In 2014, Emiri Decree no. 42 was issued establishing the Communications Regulatory Authority (CRA), pursuant to this decree CRA assumed the tasks previously performed by icQATAR.

2. Grant of License

2.1 CRA 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 CRA 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 CRA (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 authorized to use and operate SRDs provided that the Licensee operates such devices within the authorized 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 CRA pursuant to CRA's regulations as published on its official website at this following link:
http://www.cra.gov.qa/en/regulatory/spectrum-management/spectrum-licensing/guidelines

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 CRA 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 CRA's official website from time to time at this following link:
http://www.cra.gov.qa/en/about-us

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 CRA 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 CRA 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 CRA’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 CRA.

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 CRA published on CRA’s official website.

6.4 If the SRD in question is not stated in the list of approved equipment by CRA, then that person must apply, request and obtain type approval certificate from CRA.

6.5 Companies or persons wishing to sell or import SRDs for marketing purposes or commercially deal with the SRDs must register with CRA and obtain from it an "Application to obtain Import Authorization for Radio and Telecom Terminals RTTE" and must renew their registration annually in accordance with the procedures published on CRA's official website at this link:
http://www.cra.gov.qa/en/regulatory/import-equipment/import-authorization-license

After obtaining the type approval along with the Import Authorization from CRA, 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 is to be used for private use only and provided that it is in accordance with the standards adopted by CRA.

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. License 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 CRA 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 CRA 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 CRA 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 CRA pertaining to same.

13. Access to Premises

The employees of CRA 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 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, CRA may require the Licensee to provide to it information necessary for exercising its powers, and the Licensee shall provide the information to CRA on request and in the form, manner and time specified by CRA.

15. Modification and Amendment

CRA, 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 CRA. 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 CRA.

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 CRA 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. 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.

ANNEXURE (2) – Technical Requirements for Short Range Devices (SRD)

1. Short Range Devices (SRDs)

SHORT RANGE DEVICES					
Applicable Sub-section of Framework	Typical Application Type	Authorized Frequency Bands/Frequencies (Channel Spacing)	Maximum Strength/ RF Output Power	Harmonized Standard Reference	Remarks (Emission Type, Duty Cycle, other restrictions
Non-specific Short Range Devices	ISM	6765 kHz-6795 kHz	42 dBµA/m at 10m	EN 301 489-1, FCC PART 15, EN 300 220-1, EN 300 330	
		13.553 MHz-13.567 MHz			
		26.957 MHz-27.283 MHz	42 dBµA/m at 10m, e.r.p 10mW		
		40.66 MHz-40.7 MHz	e.r.p 10mW		
	Non-specific Short Range Devices	868 MHz-868.6 MHz	e.r.p 25mW	EN 301 489-1, EN 300 220-1	Duty cycle≤ 1% or LBT+AFA (Listen-before-talk + Adaptive Frequency Agility)
		868.7 MHz-869.2 MHz	e.r.p 25mW		Duty cycle≤0.1% or LBT+AFA
		869.4 MHz-869.65 MHz	e.r.p 500mW		Duty Cycle ≤10% or LBT+AFA. Channel spacing ≤25kHz
		869.7 MHz-870 MHz	e.r.p 5mW or e.r.p 25mW		No requirement for e.r.p of 5mW; Duty cycle≤1% or LBT+AFA for e.r.p of 25mW
	M2M Applications	863 MHz-870 MHz	e.r.p 25mW		Duty Cycle≤01% or LBT
		870 MHz -876 MHz	e.r.p 25mW		Duty Cycle ≤0.1% ; Channel Spacing of 200 kHz
		915 MHz -921 MHz	e.r.p 25 mW		Duty Cycle≤0.1% ; Channel spacing of 200 kHz
	Non-specific Short Range Devices	433.05 MHz-434.79 MHz	e.r.p 10mW		Duty Cycle ≤10%
Non-specific Short Range Devices	ISM & Bluetooth	2400 MHz-2483.5 MHz	e.i.r.p 10mW	EN 301 489-1, EN 300 440, EN 300	Indoor use only

				328, EN 300 228	
		5725-5875 MHz	e.i.r.p 25mW	EN 300 440	Indoor use only
Non-specific Short Range Devices	Non-specific Short Range Devices	61 GHz-61.5 GHz	e.i.r.p 100mW	EN 301 489-1, EN 300 440, EN 305 550, EN 305 550	
		122 GHz-123 GHz			
		244 GHz-246 GHz			
Non-specific Short Range Devices	DECT	1880 MHz-1900 MHz	Maximum Transmit Power 10mW	EN 300 175-1 & EN 300 175-2	The use of DECT phones are restricted within indoor residential premises.
	Cordless Phones	2.4-2.4835 GHz	e.i.r.p 10mW	EN 300 440	
Radio-determination applications	Movement Detection & Alert Systems	10.5 GHz-10.6 GHz	e.i.r.p 500mW	EN 301 489-1, EN 300 440, EN 302 288-1, EN 302 372	
		24.05 GHz-24.25 GHz	e.i.r.p 100mW		
		57 GHz-64 GHz	e.i.r.p -41.3dBm/MHz		
		75 GHz-85 GHz			
Transport and Traffic Telematics	Vehicle Radar Systems	76 GHz-77 GHz	55 dBm peak e.i.r.p -50 dBm average power -23.5 dBm	EN 301 489-1, EN 301 091	Either 50 dBm average power or an average power of 23.5 dBm for pulse radar only. Conditions apply to vehicle and infrastructure radar systems only.
		24.150-24.250 GHz	e.i.r.p 100mW	EN 301 489-1, EN 302 858-1 & ETSI EN 302 288-1	
Inductive Applications	Car Immobilizers, alarm systems, data transfer to handhelds and animal identification devices.	9 kHz-148.5 kHz	72 dBµA/m at 10m	EN 301 489-1, EN 302 291, EN 300 330-2, EN 300 220-1, EN 301 357-1	
		3155 kHz-3400 kHz	13.5 dBµA/m at 10m		Security Device
		6765 kHz-6795 kHz	42 dBµA/m at 10m		
		7400 kHz- 8800 kHz	9 dBµA/m at 10m		
		13.553 MHz-13.567 MHz	60 dBµA/m at 10m		
		26.957 MHz-27.283 MHz	42 dBµA/m at 10m		Wireless Microphone/Remote Control
		433.05 MHz-434.79 MHz	e.i.r.p 10mW	EN 300 220-1	For Falcon/ or bird tracking
		869.4 MHz – 869.65 MHz	e.i.r.p 100mW	EN 300 220	For Falcon/ or bird tracking
Model Control		26.995 MHz, 27.045 MHz,	e.r.p 100mW	EN 301 489-1,	Channel spacing of 10 kHz

	Applications of devices for controlling the movement of a model.	27.095 MHz, 40.665 MHz, 40.675 MHz, 40.685 MHz, 40.695 MHz		EN 300 220-1, EN 300 330-2	
		34.995 MHz-35.225 MHz	e.r.p 100mW		Only for flying models
Active Medical Implant and their associated peripherals, Assistive Listening Devices (ALD) & Hearing Aids	Wireless applications in Healthcare and Listening Devices	401 MHz-406 MHz	e.r.p 25µW	EN 301 489-1, EN 301 839,EN 302 537	
		9 kHz-315 kHz	30 dBµA/m at 10m	EN 301 489-1, EN 302 195-1	Duty Cycle <10%
		30 MHz-37.5 MHz	e.r.p 1mW	EN 301 489-1, EN 302 510-2	Duty Cycle <10%
		173.965 MHz-174.015 MHz	e.r.p 2mW	EN 301 489-1, EN 300 422-1	
Wireless audio applications	Cordless loudspeakers, headphones	863 MHz-865 MHz	e.r.p 10mW	EN 301 489-1, EN 300 422, EN 301 357-1	Wireless Audio & Multimedia Streaming
		1795 MHz-1800 MHz	e.i.r.p 20mW		
		87.5 MHz-108 MHz	e.r.p 50nW		
Inductive Applications	Vehicle Immobilizer, anti-theft system, navigation device	133 kHz	60 dBµA/m at 10m	EN 301 489-1, EN 300 220-1	Modulation type ASK & FSK
		134 kHz	70 dBµA/m at 10m, e.r.p 10mW (10 dBm)		Modulation type FSK & Emission class F1D
		433.05 MHz-434.79 MHz	e.r.p 10mW		Modulation type ASK or FSK
		458.95 MHz	70 dBµA/m at 10m, e.r.p 10mW (10 dBm)		Modulation Type FSK & Emission class F1D
		24.05-24.25 GHz	e.i.r.p 100mW	EN 301 489-1, EN 300 440 & EN 302 288-1	
		24.15 GHz	e.i.r.p 100mW	EN 301 489-1, EN 300 440 & EN 302 288-1	SPOT frequency
		76 GHz-77 GHz	10W to 15W Peak e.i.r.p, 316.22W Peak e.i.r.p	EN 301 489-1, EN 301 091	

		1575.42 MHz	N/A	EN 301 489-1	GPS receivers
		315 MHz	e.i.r.p 10mW	EN 301 489-1, EN 300 220-1	Modulation type ASK
		13.553 MHz-13.567 MHz	60 dBµA/m at 10m	EN 301 489-1, EN 302 291, EN 300 330-2	

2. Additional Applications of Radio communications Equipment

In the context of this document, additional applications of Radio-communications Equipment include the following:

1. Radio Microphone Applications
2. Radio Frequency Identification Applications.
3. Ultra-Wide Band Technology Applications.
4. Wireless Access Systems including Radio Local Area Networks (WAS/RLANs) Applications.

2.1 Radio Microphone Applications

- Radio microphone applications include small, low power transmitters designed to be worn on the body, or hand held, for the transmission of sound.
- The frequency ranges of operation and corresponding output power levels of radio microphone applications are as follows:

Typical Application Type	Applicable Sub-section of Framework	Authorized Frequency Bands/Frequencies (Channel Spacing)	Maximum Strength/ RF Output Power	Harmonized Standard Reference	Remarks (Emission Type, Duty Cycle, other restrictions
Wireless Microphone Systems	Wireless audio applications	470 -786 MHz	50 mW e.r.p	ETSI EN 301 489-9, ETSI EN 300 422-2, ETSI EN 300 422-1, ETSI EN 300 454-1, ETSI EN 300 454-2, & ETSI TR 102 546	On a tuning range basis
		786 -789MHz	12 mW e.r.p		
		786-862 MHz	50 mW e.r.p		On a tuning range basis
		823-826 MHz	20 mW e.i.r.p		Channel spacing of 200 kHz
			100mw e.i.r.p		Restricted to body worn microphones/Channel spacing of 200 kHz

		826- 832 MHz	100mw e.i.r.p		Channel spacing of 200 kHz

2.2 Radio Frequency Identification Applications

- Radio frequency Identification (RFID) Applications include but are not limited to automatic article identification, asset tracking, anti-theft systems, alarm systems and wireless control systems.
- The frequency ranges of operation and corresponding output power levels of RFID applications are as follows:

Typical Application Type	Applicable Sub-section of Framework	Authorized Frequency Bands/Frequencies (Channel Spacing)	Maximum Strength/ RF Output Power	Harmonized Standard Reference	Remarks (Emission Type, Duty Cycle, other restrictions
Radio Frequency Identification (RFID) Application	Asset Tracking Systems	13.553 MHz-13.567 MHz	60 dBµA/m at 10m	EN 300 330 & EN 302 291	
		865.6-867.6 MHz	2W e.r.p	EN 302 208	Channel spacing of 200 kHz
		2446 MHz-2454 MHz	e.i.r.p 500mW	EN 300 440	

2.3 Ultra-Wide Band Technology Applications

- Ultra-Wide Band (UWB) Technology Applications include but are not limited to equipment used for communications, measurement, location, imaging, surveillance and medical systems.
- The technical requirements for the operation of UWB applications are not applicable to:
  - Devices and infrastructure used at a fixed outdoor location or connected to a fixed outdoor antenna;
  - Devices installed in flying models, aircraft and other aviation;
  - Devices installed in road and rail vehicles.
- The frequency ranges of operation and corresponding output power levels of UWB technology applications are as follows:

Typical Application Type	Applicable Sub-section of Framework	Authorized Frequency Bands/Frequencies (Channel Spacing)	Maximum Strength/ RF Output Power	Harmonized Standard Reference	Remarks (Emission Type, Duty Cycle, other restrictions
Ultra-Wide Band Technology	Wide Band Data	Below 1.6 GHz	maximum mean e.i.r.p. spectral	ETSI EN 302 500-1, EN 302 065, ETSI TR	

	Transmission Systems		density of -90 dBm/MHz,	101 994-1, ETSI TR 102 495-5, & ETSI TR 102 495-7	
		1.6 - 2.7 GHz	maximum mean e.i.r.p. spectral density of -85 dBm/MHz		
		2.7 - 3.4 GHz	maximum mean e.i.r.p. spectral density of -70 dBm/MHz		
		3.1-4.8 GHz	maximum mean e.i.r.p. spectral density of -41.3 dBm/MHz		Low Duty Cycle/ Detect and Avoid
		4.8 - 6 GHz	maximum mean e.i.r.p. spectral density of -70 dBm/MHz		Detect And Avoid
		6 - 8.5 GHz	maximum mean e.i.r.p. spectral density of -41.3 dBm/MHz		Detect And Avoid
		8.5 - 10.6 GHz	maximum mean e.i.r.p. spectral density of -65 dBm/MHz		For 8.5 - 9 GHz range, devices using Detect And Avoid are allowed to operate with a maximum mean e.i.r.p. spectral density of -41.3 dBm/MHz
		Above 10.6 GHz	maximum mean e.i.r.p. spectral density of -85 dBm/MHz		

2.4 Wireless Access Systems including Radio Local Area Networks (WAS/RLANs) Applications

- The operation of Wireless Access Systems is restricted within indoor private premises.
- The frequency ranges of operation and corresponding output power levels of WAS/RLAN applications are as follows:

Applicable Sub-section of Framework	Typical Application Type	Authorized Frequency Bands/Frequencies (Channel Spacing)	Maximum Strength/ RF Output Power	Harmonized Standard Reference	Remarks (Emission Type, Duty Cycle, other restrictions
Wireless Local Area Networks	WiFi or WLAN	2400 MHz-2483.5 MHz	e.i.r.p 100mW	EN 300 328 (V2.1.1)	Indoor use only
		5725 MHz-5875 MHz	e.i.r.p 100mW	EN 302 502 (V2.0.8)	Indoor use only
Wireless Access Systems including Radio Local Area Networks	Wi-Fi or Radio Local Area Networks	5150 MHz-5250 MHz	maximum e.i.r.p 200mW (with & without TPC)	EN 301 893 (V1.8.1)	Indoor use only
		5250 MHz-5350 MHz	maximum e.i.r.p 200mW (with & without TPC)	EN 301 893 (V1.8.1)	Indoor use only
		5470 MHz-5725 MHz	maximum e.i.r.p 100mW (with & without TPC)	EN 301 893 (V1.8.1)	Indoor use only