

Introduction to Amateur Radio in China

A Brief Overview for Singapore Amateur Radio Users

Shi Yingwang

9V1YW / BI2WW

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History of Amateur Radio in China

- Starts from 1930s
- Banned after 1949 due to national security reason
- Application of personal station reopened since 1992
- The organization at that time was named Chinese Radio Amateur Sports Club and now renamed as Chinese Radio Amateur Club (CRAC)
- No reciprocal agreement with any countries.

Regulatory Framework

- Overview of the regulatory body: Ministry of Industry and Information Technology (MIIT), and the subordinate agencies in each province and city.
- Operation certificate is issued to people who passed amateur radio examination for respective class (A, B and C)
- Equipment needs to be verified before application of license that to be written on it
- Devices with CMMIT code and existence of any amateur frequency range found in its approved frequencies will be eligible for verification.

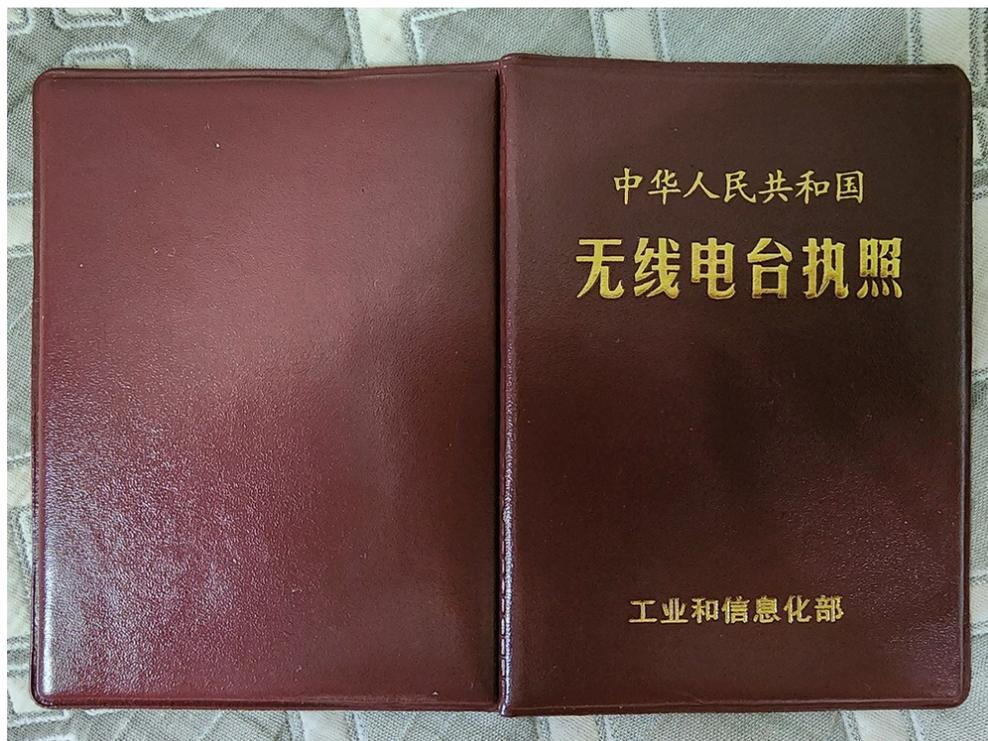


Category of Operation Certificate and Frequency Range Allowed

- Class A: 50-54MHz, 144-148MHz, 430-440MHz, 1240-1300MHz, 25W max
- Class B: Class A plus respective HF amateur band and higher amateur bands in UHF, SHF or EHF, 15W max for HF
- Class C: similar to Class B but 1000W max for HF



Here are the Licenses



Cover page

**中华人民共和国
无线电台执照**

执照编号: AR2101202400239

有效期: 2024-12-12 至 2029-12-11

发照机关

设台人员: SHI YING WANG
证件号码: 护照 K3798236B
电台呼号: BI2WW
电台类型: A类
通信范围: 省际或涉外
台站地址:

设备型号: Rytera 6900
出厂编号: 6900D240908201

核发单位(章): [Red Seal: 工业和信息化部行政审批专用章]

核发日期: 2024-12-12

设备型号	出厂编号	备注
Rytera	6900D240908201	
UV-K6	QK52023014	

Class A license; inter-province or international

**中华人民共和国
无线电台执照**

执照编号: AR2101202400239

有效期: 2025-02-16 至 2030-02-15

发照机关

设台人员: SHI YING WANG
证件号码: 护照 K3798236B
电台呼号: BI2WW
电台类型: B类
通信范围: 省际或涉外
台站地址:

设备型号: PMR-171
出厂编号: 337410950

核发单位(章): [Red Seal: 工业和信息化部行政审批专用章]

核发日期: 2025-02-16

设备型号	出厂编号	备注
Rytera	6900D24090	
UV-K6	QK52023014	

Class B license; inter-province or international

Amateur Radio Examination in China

- Operation Certificate is issued upon pass of examinations.
- All are MCQ, there is a question bank that questions are randomly chosen.
- Class A: 30 MCQs chosen among total 370, 25 or more correct is pass. Class B: 50 MCQs chosen among total 700+, 40 or more correct is pass. Registration require Class A certificate and history of setting amateur radio station for more then 6 months.
- Class C: 80 MCQs chosen among total 1100+, 60 or more correct is pass. Registration require Class B certificate and history of setting HF amateur radio station for more then 18 months.

Difference for Amateur Radio in China and Singapore

Content	China	Singapore
Operation Certificate	Issued to people	NA
Amateur Radio License	Issued to devices	Issued to people
Allowed Devices on License	Buy first and then verified by officials to be listed on license	Approved by officials first and then buy
Call at Different Location	Yes (e.g. B2/9V1YW)	Yes (e.g. 9V1/BI2WW)
Guest Call	Yes, anyone with operation certificate can use my device appeared on license and call under my callsign BI2WW	NA

Visitor Operation Certificate

- This is something that all of us are eligible to get.



中国无线电协会业余电台操作证书
CRAC Amateur Radio Operation Licence

来访者业余无线电台临时操作证书

姓名 : Shi Yingwang
身份证件号 : E4132942B
操作类别 : B
操作证号 : TB00001021
发证日期 : 18 Nov 2017
核发地点 : CRAC
原籍地呼号 : 9V1YW
有效期至 : 17 Nov 2019



中国无线电协会业余电台操作证书
CRAC Amateur Radio Operation Licence

来访者业余无线电台临时操作证书

姓名 : Shi Yingwang
身份证件号 : K3798236B
操作类别 : B
操作证号 : TB00001042
发证日期 : 23 Jul 2023
核发地点 : CRAC
原籍地呼号 : 9V1YW
有效期至 : 22 Jan 2024



Amateur Radio Callsign in Mainland China

- Start with alphabet “B”
- For 2nd alphabet: G/H/I/D/A means personal station, R means repeater, Y means group station. Note: M/U/V/X indicates Taiwan callsign. BS7H is specially for Scarborough Reef
- Followed by a digit, it indicates different zones.
- Lastly by 2 or 3 alphabets. E.g.

My callsign: BI2WW

Guangzhou Club repeater: BR7IAA

Harbin Institute of Technology Amateur Radio Club:
BY2HIT

Amateur Radio Community in China

- Estimated number of licensed amateur radio operators are more than Singapore for cities with similar population (about 500).
- Weekly net activities in various repeaters and digital network. E.g. MMDVM talk group 46001 for each Saturday 8pm.
- Emergency communication support under natural disasters, e.g. Wenchuan earthquake 2008.
- May 5th Amateur Radio Festival
- All Provinces of China (WAPC) DX Contest (木兰围场 , yearly)
- Dxpedition e.g. BS7H Scarborough Reef 2007
- Fox hunting competition (especially for students)

Different Zones with Numbers

Zone number	Provinces included
1	Beijing, amateur satellite and spacial business
2	Heilongjiang A-H, Jilin I-P, Liaoning Q-X
3	Tianjing A-F, Inner Mogolia G-L, Hebei M-R, Shanxi S-X
4	Shanghai A-H, Shandong I-P, Jiangsu Q-X
5	Zhejiang A-H, Jiangxi I-P, Fujian (Hokkien) Q-X
6	Anhui A-H, Henan I-P, Hubei Q-X
7	Hunan A-H, Guangdong I-P, Guangxi Q-X, Hainan Y
8	Sichuan A-F, Chongqing G-L, Guizhou M-R, Yunnan S-X
9	Shaanxi A-F, Ningxia G-L, Gansu M-R, Qinghai S-X
0	Xinjiang A-F, Xizang (Tibet) G-L

• B

China personal zone 2

Liaoning Province

China personal zone 1

Beijing

Challenges faced by Chinese amateur radio operators

- Severe QRM especially by various switching power supplies.
- False police report by the elderlies when they see big antenna.
- Narrower frequency usage by some cities, e.g Shanghai (for U/V band, only 50-54MHz and 144-146MHz available and all other bands banned)
- Language barrier for international communication due to weak English and non-standard English pronunciation.

How to apply any amateur radio documents in China?

- Visitor operation certificate can be applied for short term, by emailing to CRAC to provide necessary materials.
- Any long term document is required to apply of Chinese callsign with a local address.
- Must be able to understand not only Chinese language but also Chinese technical words to pass the examination.
- Singapore license is accepted as a proof of history of setting amateur radio stations to satisfy the duration requirement.
- Understand non-standard English and Chinese pronunciation in order to make QSO.

Thank you