

# **Country-specific Radio Regulations of RFID Equipment**

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**OMRON Corporation**

Industrial Automation Company

RFID readers, writers, and antennas are intentionally emitting the magnetic fields and electromagnetic waves of specific frequencies. To use them in a different country, you must conform to the regulations on radio equipment of that country. We have obtained type approvals etc. so that OMRON products can be used in the following countries. Be aware that OMRON RFID equipment cannot be used in the countries that are not listed in this document. If you have any questions, contact your OMRON sales representative.

## 1. Japan

- (1) Radio administration: Ministry of Internal Affairs and Communications
- (2) Certification number, Type designation number  
Refer to the web page "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) Precautions for use  
For V780, you need to make application at the licensing bureau before use. Refer to the User's Manual for how to make application.

Model	Frequency	Japanese Radio Law	Type approval	Remarks
V600 Series	530 kHz	Article 4, paragraph (1), item (i) of the Radio Act Article 6, paragraph (1), item (i) of the Enforcement Regulation of the Radio Law (Extremely Low Power Radio Station)	Not required	
V640 Series	134.2 kHz	Article 44, paragraph (1), item (ii), 1 of the Enforcement Regulation of the Radio Law (Inductive Radio Communication Equipment)	Not required	
V680 Series	13.56 MHz	Article 44, paragraph (1), item (ii), 3 of the Enforcement Regulation of the Radio Law Standards: ARIB STD-T82 (Inductive Reader/Writer Communication Equipment)	Type designation	
V680S Series				
V780-HMD68-□-JP	916.8 to 919.2 MHz	Article 14 of the Enforcement Regulation of the Radio Law (Premises Radio Station) Standards: ARIB STD-T106 (920MHz-Band RFID Equipment for Premises Radio Station and Land Mobile Radio Station)	Construction design certification	You need to make application at the licensing bureau.

## 2. Europe

(1) Radio administration

Radio regulations in European countries are based on the Recommendation ERC/REC 70-03 Relating to the use of SRD (Short Range Devices) of CEPT (European Conference of Postal and Telecommunications Administrations). Moreover, on the basis of RE Directive (Radio Equipment Directive, 2014/53/EU, Radio Equipment Directive), products in the table below conform to the Radio Standards, EMC (Electromagnetic Compatibility) Standards, and Electrical Safety Standards of Europe.

(2) You do not need to submit an application for user license etc. before use.

Model	Frequency	Harmonized standards			Conformity assessment
		Radio spectrum	EMC	Electrical safety	
V600 Series (Note 1)	530 kHz	EN 300 330	EN 301 489-1	EN 60950-1 or EN 61010-1	Conforming
V640 Series (Note 2)	134.2 kHz	EN 300 330	EN 301 489-1	EN 61010-1	Conforming
V680 Series (Note 2)	13.56 MHz	EN 300 330	EN 301 489-1	EN 61010-1	Conforming
V680S Series (Note 2)					
V780-HMD68- □-EU	865.6 to 867.6 MHz	EN 302 208	EN 301 489-1	EN 61010-2- 201	Conforming

(Note 1)

(1) V600-H07 and V600-HS67 cannot be used in European countries.

(2) V600-CH□, V600-H11, V600-H51, V600-H52, combinations of V600-HA51, V600-HAM81/91, or V600-HAR81/91/92 and antenna V600-HS51/61, and combinations of V600-HAM42-DRT and antenna V600-HS51/51/63 can be used in the following 33 countries (including 28 EU member countries).

Iceland (IS), Ireland (IE), United Kingdom (GB), Italy (IT), Estonia (EE), Austria (AT), Netherlands (NL), Cyprus (CY), Greece (GR), Croatia (HR), Switzerland (CH), Sweden (SE), Spain (ES), Slovakia (SK), Slovenia (SI), Czech (CZ), Germany (DE), Turkey (TR), Denmark (DK), Hungary (HU), Finland (FI), France (FR), Bulgaria (BG), Belgium (BE), Poland (PL), Portugal (PT), Norway (NO), Malta (MT), Latvia (LV), Lithuania (LT), Liechtenstein (LI), Romania (RO), Luxembourg (LU)

(3) Combinations of amplifier V600-HAM81/91 or V600-HAR81/91/92 and antenna V600-HS63 can be used in the following six countries.

Ireland (IE), United Kingdom (GB), Spain (ES), Slovenia (SI), Germany (DE), Latvia (LV)

(Note 2)

V640, V680, and V680S can be used in the following 33 countries (including 28 EU member countries).

Iceland (IS), Ireland (IE), United Kingdom (GB), Italy (IT), Estonia (EE), Austria (AT), Netherlands (NL), Cyprus (CY), Greece (GR), Croatia (HR), Switzerland (CH), Sweden (SE), Spain (ES), Slovakia (SK), Slovenia (SI), Czech (CZ), Germany (DE), Turkey (TR), Denmark (DK), Hungary (HU), Finland (FI), France (FR), Bulgaria (BG), Belgium (BE), Poland (PL), Portugal (PT), Norway (NO), Malta (MT), Latvia (LV), Lithuania (LT), Liechtenstein (LI), Romania (RO), Luxembourg (LU)

\* Two alphabetical letters in parentheses, such as IS and AT, are the country codes based on ISO 3166-1.

### 3. North America

#### 3-1. United States of America

- (1) Radio administration: FCC (Federal Communications Commission)
- (2) FCC ID: Refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V600 Series	530 kHz	Approved
V640 Series	134.2 kHz	Approved
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-PRT)
V680S Series	13.56 MHz	Approved
V780-HMD68-□-US	902 to 928 MHz	Approved

#### 3-2. Canada

- (1) Radio administration: ISED (Innovation, Science and Economic Development Canada)
- (2) IC certification number: Refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V600 Series	530 kHz	Approved (Except for V600-CH1D-V2, V600-CH1D-PSI, and V600-HA51)
V640 Series	134.2 kHz	Approved
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-PRT)
V680S Series	13.56 MHz	Approved
V780-HMD68-□-US	902 to 928 MHz	Approved

#### 3-3. Mexico

- (1) Radio administration: IFETEL (Instituto Federal de Telecomunicaciones: Federal Telecommunications Institute)
- (2) Certification number: Refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V600 Series	530 kHz	Approved
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-FRT/PRT)
V680S Series	13.56 MHz	Approved
V780-HMD68-□-MX	902 to 928 MHz	Approved

#### 3-4. Brazil

- (1) Radio administration: ANATEL (Agência Nacional de Telecomunicações: National Telecommunications Agency)
- (2) Certification number: Refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-FRT/PRT)
V680S Series	13.56 MHz	Approved

## 4. Asia

### 4-1. China

- (1) Radio administration: CMIIT (Ministry of Industry and Information Technology of the People's Republic of China)
- (2) CMIIT ID: Refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V600 Series	530 kHz	Exempt from approval. (Except for V600-H07 and V600-HS67)
V640 Series	134.2 kHz	Exempt from approval.
V680 Series	13.56 MHz	
V680S Series	13.56 MHz	
V780-HMD68-□-CN	920.5 to 924.5 MHz	Approved

### 4-2. Republic of Korea

- (1) Radio administration: MSIT (Ministry of Science and ICT)
- (2) KC certification number: Refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V600 Series	530 kHz	Approved (Except for V600-CH1D-PSI)
V640 Series	134.2 kHz	Approved
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-FRT/PRT)
V680S Series	13.56 MHz	Approved
V780-HMD68-□-KR	917 to 920.8 MHz	Approved

### 4-3. Taiwan

- (1) Radio administration: NCC (National Communications Commission)
- (2) NCC certification number: Refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V600 Series	530 kHz	Approved
V640 Series	134.2 kHz	Approved
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-FRT/PRT)
V680S Series	13.56 MHz	Approved
V780-HMD68-□-TW	922 to 928 MHz	Approved

### 4-4. Hong Kong

- (1) Radio administration: OFTA (Office of the Telecommunications Authority, Government of the Hong Kong Special Administrative Region)
- (2) Series models in the table below can be used.
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V680 Series	13.56 MHz	Exempt from approval.
V680S Series		

#### 4-5. Philippines

- (1) Radio administration: NTC (National Telecommunications Commission)
- (2) NTC certification number: Refer to Models with Standards Certification (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-FRT/PRT)
V680S Series	13.56 MHz	Approved

#### 4-6. Indonesia

- (1) Radio administration: SDPPI (Direktorat Jenderal Sumber Daya Perangkat Pos dan Informatika: Directorate General of Posts and Informatics Resources & Equipments)
- (2) SDPPI certification number: Refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-FRT/PRT)
V680S Series	13.56 MHz	Approved

#### 4-7. Vietnam

- (1) Radio administration: MIC (Ministry of Information and Communications)
- (2) Series models in the table below can be used.
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V640 Series	134.2 kHz	Approved (V640-HAM11-ETN-V2 only)
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-PRT)
V680S Series	13.56 MHz	Approved (Except for V680S-HMD66-PNT/-HMD63-PNT)

#### 4-8. Thailand

- (1) Radio administration: NTC (National Telecommunications Commission)
- (2) Registration number: Refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).

Model	Frequency	Type approval	Remarks
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-FRT/PRT)	
V680S Series	13.56 MHz	Approved	
V780-HMD68-□-SG	920 to 925 MHz	Approved	User license required

#### 4-9. Singapore

- (1) Radio administration: IMDA (Info-communication Media Development Authority)
- (2) IMDA registration number: Refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type registration
V600 Series	530 kHz	Registered
V640 Series	134.2 kHz	Registered
V680 Series	13.56 MHz	Registered (Except for V680-HAM42-FRT/PRT)
V680S Series	13.56 MHz	Registered
V780-HMD68-□-SG	920 to 925 MHz	Registered

#### 4-10. Malaysia

- (1) Radio administration:  
SKMM (Suruhanjaya Komunikasi dan Multimedia Malaysia: Malaysian Communications and Multimedia Commission)
- (2) Certification number:  
We have obtained the certification of the certification body SRIM QAS of Malaysia.  
For certification numbers, refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V640 Series	134.2 MHz	Approved
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-FRT/PRT)
V680S Series	13.56 MHz	Approved
V780-HMD68-□-MY	919 to 923 MHz	Approved

#### 4-11. India

- (1) Radio administration: DOC (Department of Telecommunications, Ministry of Communications)
- (2) Certification number:  
We have obtained ETA (Equipment Type Approval).  
For certification numbers, refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V680 Series	13.56 MHz	Approved (Except for V680-HAM42-FRT)
V680S Series	13.56 MHz	Approved
V780-HMD68-□-IN	865 to 867 MHz	Approved

#### 4-12. Israel

- (1) Radio administration: MoC (Ministry of Communications)
- (2) For certification numbers, refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Type approval
V640 Series	134.2 kHz	Approved

## 5. Oceania

### 5-1. Australia

- (1) Radio administration: ACMA (The Australian Communications and Media Authority)
- (2) For registered models, refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Conformity
V680 Series	13.56 MHz	Conforming (Except for V680-HAM42-FRT/PRT)
V680S Series	13.56 MHz	Conforming

### 5-2. New Zealand

- (1) Radio administration: MBIE (Ministry of Business, Innovation and Employment)
- (2) For registered models, refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).
- (3) You do not need to submit an application for user license etc. before use.

Model	Frequency	Conformity
V680 Series	13.56 MHz	Conforming (Except for V680-HAM42-FRT/PRT)
V680S Series	13.56 MHz	Conforming

## 6. Russia

- (1) Radio administration: Minkomsvyaz (Ministry of Digital Development, Communications and Mass Media of the Russian Federation)
- (2) For registered models, refer to "Models with Standards Certification" (<https://www.ia.omron.com/support/models/>).

Model	Frequency	Type approval	Remarks
V680 Series	13.56 MHz	Approved	
V680S Series	13.56 MHz	Approved	
V780-HMD68-□-RU	866 to 867.6 MHz	Approved	User license required

End

Note: Do not use this document to operate the Unit.

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