FCC and ISED Certification

Component	Manufacturer	Model	Operating Frequency (MHz)	FCC ID	IC ID
B-Pillar endpoint	Tesla	1783148	13.56, 2400-2483.5, 6000-8500	2AEIM-1783148	20098-1783148
Interior endpoint	Tesla	1815669	2400-2483.5, 6000-8500	2AEIM-1815669	20098-1815669
Rear left BLE	Tesla	1817073	2400-2483.5, 6000-8500	2AEIM-1817073	20098-1817073
Vivaldi Endpoint	Tesla	1752108	2400-2483.5, 6000-8500	2AEIM-1752108	20098-1752108
Fascia endpoint	Tesla	1733130	2400-2483.5, 6000-8500	2AEIM-1733130	20098-1733130
TPMS	Tesla	1472547G	2400-2483.5	2AEIM-1472547G	20098-1472547G
TPMS	Tesla	1849171	2400-2483.5	2AEIM-1849171	20098-1849171
Glove Box BT USB Module	Tesla	1776863	2400-2483.5	2AEIM-1776863	2AEIM-1776863
In-cabin radar (if equipped)*	Tesla	1616631	60000-64000	2AEIM-1616631	20098-1616631
Homelink (if equipped)	Gentex	ADHL5C	286-440MHz	NZLADHL5C	4112A-ADHL5C
TCU 5G	Tesla	1763104	--	XMR2024AG555QGL XMR202401AF68E	10224A-024AG555QGL 10224A-202401AF68E
TCU	Tesla	1727111	--	XMR2020AG525RGL XMR202303AF51Y	10224A-2020AG525R 10224A-202201AF51Y
Wireless phone charger	Tesla	WC5	13.56 MHz, 127.72 KHz	2AEIM-WC5	20098-WC5

* The in-cabin radar is restricted to factory installation.

The devices listed above comply with Part 15 of the FCC rules and Industry Canada's license-exempt RSS Standard(s) and EU Directive 2014/53/EU.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference; and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Tesla could void your authority to operate the equipment.

Certification Conformity

Radio Frequency Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician to help.

⚠ CAUTION: This equipment and its antennas must not be co-located or operated with another antenna or transmitter.

Radiation Exposure Statement

The product complies with the FCC/IC RF Exposure for Low Power Consumer Wireless Power Transfer. The RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The furthest RF exposure that compliance was demonstrated at 20cm and greater separation from the user body or set the device to lower output power if such function is available.

TCU device has been tested and meets applicable limits for Radio Frequency(RF) exposure. TCU can be installed and is able to operate with a minimum distance of 1 inch (25mm) between the radiator and human body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour unenvironnement non contrôlé.

Déclaration d'exposition aux radiations:

Le produit est conforme à l'exposition RF IC pour le transfert de puissance sans fil de consommateurs de faible puissance. La limite d'exposition RF fixée pour un environnement non contrôlé est sans danger pour le fonctionnement prévu tel que décrit dans ce manuel.

L'exposition RF supplémentaire que la conformité a été démontrée à 20cm et plus de séparation du corps de l'utilisateur ou de mettre l'appareil à la puissance de sortie inférieure si une telle fonction est disponible.

EU

CE

Your vehicle has different types of radio equipment. The manufacturers of the radio equipment declare the RF Modules listed above have been evaluated against the essential requirements and other relevant provisions of Directive 2014/53/EU. The full text of the Declaration of Conformity can be found at the following Internet address: https://www.tesla.com/eu-doc.

ALL REGIONS - RF Modules

The devices described below have been evaluated against the essential requirements of the 2014/53/EU and 2011/65/EU Directive.

RF Modules

Description	Frequency Band	Power Level	Antenna Location	Manufacturer
Interior Endpoint	2400 – 2483.5 MHz	~~10~~ 2 mW	IFA Metal Antenna, in A header	Tesla, Inc. 3500 Deer Creek Rd, Palo Alto, CA 94304 USA
Interior Endpoint	6000 – 8500 MHz	-41.3dBm/MHz	IFA Metal Antenna, in A header	
Rear left BLE	2400 – 2483.5 MHz	~~10~~ 2 mW	PCB antenna Antenna, next to rear left wheel	
Rear left BLE	6000 – 8500 MHz	-41.3dBm/MHz	PCB antenna Antenna, next to rear left wheel	
Fascia Endpoint	6000 – 8500 MHz	-41.3dBm/MHz	Chip Antenna, behind front and rear fascia	

Fascia Endpoint	2400 – 2483.5 MHz	2 mW	PCB Antenna, behind front and rear fascia	
B-Pillar Endpoint	6000 - 8500 MHz	-41.3dBm/MHz	PCB Antenna , behind the B-pillar glass	
B-Pillar Endpoint	2400 – 2483.5 MHz	2 mW	PCB Antenna, behind the B-pillar glass	
B-Pillar Endpoint	13.56 MHz	n/a(magnetic field)	PCB Antenna, behind the B-pillar glass	
Wireless Charger	13.56 MHz 127.72 kHz	n/a (magnetic field)	PCB Antenna, in center console	
In cabin radar	60000 - 64000 MHz	20 mW	PCB Antenna, close to rear view mirror	
Radar	76000-77000 MHz	4 W	PCB Antenna, behind front fascia	
Glovebox BT-USB	2400 – 2483.5 MHz	3.6 mW	PCB Antenna, in Glovebox	
TPMS Sensor	2400 – 2483.5 MHz	2.6 mW	Each wheel	
Bluetooth	2402 – 2480 MHz	10 mW	Front header	
GSM 900	885-915 930-960 MHz	2 W	Transmit and receive: Front header, also used for eCall Receive: Front header Wireless Connectivity	
GSM 1800	1710-1785 1805-1880 MHz	1 W		
WCDMA (band 8)	880-915 925-960 MHz	250 mW		
WCDMA (band 1/3)	1920-1980 2110-2170 MHz	250 mW		
LTE (band 7/8/34/41)	2500-2570, 2620-2690 MHz 925-960, 800-915 MHz 2010-2025 MHz (TDD) 2496-2690 MHz (TDD)	200 mW		
LTE (band 20/28/29/32)	758-803, 703-748 MHz 791-821, 832-862 MHz 717-728 MHz Rx only 1452-1496 MHz Rx only	200 mW		
LTE (band 1/3/9)	1805-1880, 1710-1785 MHz 2110-2170, 1920-1980 MHz	200 mW		
LTE (band 11/17/18)	1475.9-1495.9, 1427.9-1447.9 MHz 860-890, 815-845 MHz	200 mW		
Wi-Fi	2400-2483.5 MHz 5470-5725 MHz, 5725-5850 MHz	100 mW	Front header, Wireless Connectivity	
Bluetooth	2400-2483.5 MHz	10 mW	Front header	

GNSS	1559-1610; 1151-1214; 1215.6-1350MHz	n/a (receive only)	Under front camera glare shield cover	
Rear UHF BLE~~Charge port antenna~~	315 MHz (NA, JP) 433.9 MHz (RoW)	n/a (receive only)	~~Charge port area~~Behind rear bumper	
FM	76-108 MHz	n/a (receive only)	Rear Window	Harman Becker Automotive Systems GmbH Becher-Goring-Str.16 76307 Karlsbad, Deutschland
DAB	174-241 MHz	n/a (receive only)	Rear Window	
Homelink (if equipped)	286-440 MHz	10 mW	Above front bumper beam	Gentex Corporation 600 N Centennial Street Zeeland, MI 49464 USA

China

CMIIT IDs

HomeLink: 2016DJ6564 Key Fob:

2018DJ6329

汽车毫米波雷达使用须知

汽车毫米波雷达使用及防干扰指南

1、安装在汽车上 76-77GHz 频率范围内的毫米波雷达已依据 《汽车雷达无线电管理暂行规定》（工信部无〔2021〕181 号）备案。用户不得擅自加装、改装毫米波雷达，否则需要自行承担法律责任；

2、汽车雷达是自动辅助驾驶组件的一部分。请按照《用户使用手册》中的相关说明进行安全操作；

3、如果汽车雷达或相关辅助驾驶系统受到外界干扰无法正常工作，应优先考虑驾驶员的个人判断，并由驾驶员做出正确选择；

4、杜绝使用不符合国家相关规定的汽车雷达产品。请避免因不规范操作所导致的对其他无线电设备的干扰。

射电天文台区域

为了保护国家射电天文台不受其他无线电信号的干扰，装载汽车雷达的车辆不得驶入国家相关射电天文台的干扰保护距离内（见附件）。如射电天文台所在地相关部门另有规定，请遵照其规定。

附件：中国相关射电天文台及与汽车雷达之间的干扰保护距离

1、位于青海省海西蒙古族藏族自治州德令哈市蓄集乡泽 令沟小野马滩的射电天文台，与汽车雷达之间的干扰保护距离 为 26 公里。

2、位于上海市松江区九江公路 1703 号、上海市松江区佘山镇以及北京密云区不老屯镇的射电天文台，与汽车雷达之间的干扰保护距离为 3 公里。

3、位于新疆维吾尔自治区乌鲁木齐市乌鲁木齐县甘沟乡的射电天文台，与汽车雷达之间的干扰保护距离为 5 公里。

4、位于新疆维吾尔自治区昌吉回族自治州奇台县石河子村的射电天文台，与汽车雷达之间的干扰保护距离为 15 公里。

5、位于云南普洱市景东彝族自治县哀牢山自然保护区杜鹃湖的射电天文台，与汽车雷达之间的干扰保护距离为 10 公 里。

微功率设备使用说明：

（一）**符合“微功率短距离无**线电发射设备目录和技术要求”**中通用微功率**设备C 类设备技术要求，内置环状NFC**天**线，工作频率13560kHz, 10m处磁场强度不大于42dBuA/m(**准峰**值检波)， **用**户可根据说明书来使用此功能；

（二）**不得擅自改**变使用场景或使用条件、扩大发射频率范围、加大发射功率（包括额外加装射频功率放大

器），不得擅自更改发射天线；

（三）不得对其他合法的无线电台（站）产生有害干扰，也不得提出免受有害干扰保护；

（四）应当承受辐射射频能量的工业、科学及医疗（ISM）应用设备的干扰或其他合法的无线电台（站）干扰；

（五）如对其他合法的无线电台（站）产生有害干扰时，应立即停止使用，并采取措施消除干扰后方可继续使用；

（六）在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站（含测控、测距、接收、导航站）等军民用无线电台（站）、机场等的电磁环境保护区域内使用微功率设备，应当遵守电磁环境保护及相关行业主管部门的规定；

（七）禁止在以机场跑道中心点为圆心、半径5000米的区域内使用各类模型遥控器；

（八）微功率设备使用温度为-40 - 85°C, 由汽车电池供电。