

Testing Laboratory
Accreditation
Certificate

Accreditation No. RTL02810

**KEC Electronic Industry Development Center
Testing Division**

**3-2-2, Hikari-dai, Seika-cho, Soraku-gun, Kyoto, 619-0237
Japan**

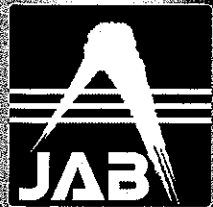
meets the following criteria. On the basis of this, Japan Accreditation Board (JAB) grants accreditation to the said testing laboratory.

Applicable accreditation criteria	: JIS Q 17025:2018 (ISO/IEC 17025:2017)
Scope of accreditation	: Electrical Testing (As described in the appendix)
Premises covered by accreditation	: As described in the appendix.
Expiry date of accreditation	: January 31, 2029

Revised	August 6, 2024
Renewed	February 1, 2025
Initial accreditation	January 22, 2009


Y. Miki, President

Japan Accreditation Board



Accreditation Certificate

Appendix

Type of Laboratory	Testing Laboratory
Name of Laboratory	KEC Electronic Industry Development Center Testing Division
Address	3-2-2, Hikari-dai, Seika-cho, Soraku-gun, Kyoto, 619-0237 Japan

1) Premises on which testing activities are performed

Name of Premises	KEC Electronic Industry Development Center Testing Division	
Address of Premises	Postal code	619-0237
	Address	3-2-2, Hikari-dai, Seika-cho, Soraku-gun, Kyoto, 619-0237 Japan
Testing service at permanent facilities or on site testing service	<input checked="" type="checkbox"/> Testing service at permanent facilities <input type="checkbox"/> On site testing service	

Scope of Accreditation

FIELD	M21 Electrical Testing
-------	------------------------

CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.1 Continuous disturbance tests	MIL-STD-461E 5.4(CE101), 5.5(CE102), MIL-STD-461F 5.4(CE101), 5.5(CE102), MIL-STD-461G 5.4(CE101), 5.5(CE102), RTCA/DO-160F Section 21 (CE), RTCA/DO-160G Section 21 (CE)
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.2 Continuous disturbance tests (on board vehicle)	CISPR 25 (2002, 2008, 2016, 2021) (Reference Standard: CISPR 16-1-1, CISPR 16-1-2)
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.5 Magnetic field / Electric field test (up to 30 MHz)	MIL-STD-461E 5.15(RE101), 5.16(RE102), MIL-STD-461F 5.16(RE101), 5.17(RE102), MIL-STD-461G 5.17(RE101), 5.18(RE102)
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.6 Electric field test (30 MHz up to 1 GHz)	MIL-STD-461E 5.16(RE102), MIL-STD-461F 5.17(RE102), MIL-STD-461G 5.18(RE102), RTCA/DO-160F Section 21 (RE), RTCA/DO-160G Section 21 (RE)
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.7 Electric field test (1 GHz over)	MIL-STD-461E 5.16(RE102), MIL-STD-461F 5.17(RE102), MIL-STD-461G 5.18(RE102), RTCA/DO-160F Section 21 (RE), RTCA/DO-160G Section 21 (RE)

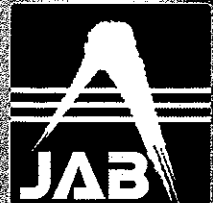


Accreditation Certificate

Appendix

Type of Laboratory	Testing Laboratory
Name of Laboratory	KEC Electronic Industry Development Center Testing Division
Address	3-2-2, Hikari-dai, Seika-cho, Soraku-gun, Kyoto, 619-0237 Japan

CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.8 Electric field test (on board vehicle)	CISPR 25 (2002, 2008, 2016, 2021) (Reference Standard: CISPR 16-1-1, CISPR 16-1-4)
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.13 Transient emission test	ISO 7637-2 (2004, 2011) (Reference Standard: ISO7637-1)
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.14 Electrostatic discharge immunity tests	MIL-STD-461G 5.16(CS118) ISO10605 (2001, 2008)
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.15 RF radiated electromagnetic field immunity tests	MIL-STD-461E 5.18(RS101), 5.19(RS103(limited to 18 GHz or less and except 5.19.4 Reverberation chamber)) MIL-STD-461F 5.19(RS101), 5.20(RS103(limited to 18 GHz or less and except 5.20.4 Reverberation chamber)) MIL-STD-461G 5.20(RS101), 5.21(RS103(limited to 18 GHz or less and except 5.21.4 Reverberation chamber))
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.16 Electrical fast transient / burst tests	MIL-STD-461E 5.13(CS115), 5.14(CS116) MIL-STD-461F 5.13(CS115), 5.14(CS116) MIL-STD-461G 5.13(CS115), 5.14(CS116)
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.17 Surge immunity tests	MIL-STD-461G 5.15(CS117)
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.18 RF conducted immunity tests	MIL-STD-461E 5.7(CS101), 5.12(CS114), MIL-STD-461F 5.7(CS101), 5.12(CS114), MIL-STD-461G 5.7(CS101), 5.12(CS114)
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.26 Immunity tests for airborne equipment	RTCA/DO-160F Section 17, 18, 19, 20(except 20.6 Reverberation Chamber Method), 22, 25 RTCA/DO-160G Section 17, 18, 19, 20(except 20.6 Reverberation Chamber Method), 22, 25



Accreditation No.	RTL02810
-------------------	----------

Accreditation Certificate

Appendix

(Page 3/3)

Type of Laboratory	Testing Laboratory
Name of Laboratory	KEC Electronic Industry Development Center Testing Division
Address	3-2-2, Hikari-dai, Seika-cho, Soraku-gun, Kyoto, 619-0237 Japan

CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21 Electrical testing M21.4 Electromagnetic compatibility testing M21.4.22 Immunity tests for equipment installed on road vehicles	ISO 11452-2 (2004, 2019)* (Frequency: 80 MHz up to 18 GHz, Maximum electric field strength; 600V/m) ISO 11452-4 (2005, 2011, 2020)* (except 6.2.TWC method) ISO 11452-8(2015)* ISO 11452-9(2012, 2021)* (limited to testing with the broadband antenna) ISO 11452-11 *Reference Standard: ISO11452-1 ISO 7637-2 (2004, 2011) ISO 7637-3 (2007, 2016) Reference Standard: ISO7637-1 ISO 16750-2 (2012) (except 4.9, 4.10, 4.11, 4.12, 4.13)

(Notes on Accreditation Certificate) The laboratory is only accredited for laboratory activities outlined within the methods listed above. Reference to any other activity within these standards, such as risk management or risk assessment, does not fall within the laboratory's accredited capabilities.
When version information of standards or methods are not identified in the scope, laboratories shall adapt to use the current version of such standards within six months at latest from the issued date of current version.
Notes for EMC test laboratory for FCC Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.

Japan Accreditation Board