

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-12140-01-03 according to DIN EN ISO/IEC 17025:2018

Valid from: 10.06.2024

Date of issue: 10.06.2024

This annex is a part of the accreditation certificate D-PL-12140-01-00.

Holder of partial accreditation certificate:

7layers GmbH
Borsigstraße 11, 40880 Ratingen

with the location

7layers GmbH
Borsigstraße 11, 40880 Ratingen

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and they conform to the general with the principles of DIN EN ISO 9001.

Tests in the fields:

Telecommunication (TC) and Electromagnetic Compatibility (EMC) for Canadian Standards

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.

Annex to the Partial Accreditation Certificate D-PL-12140-01-03

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAKKS, to use standards or equivalent testing methods listed here with different issue dates. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation

| Technical field | Standard / in house procedure / Version | Title of standard or in house procedure (deviations / modifications of standard) | Test area / reductions |
|--|---|--|--|
| Electromagnetic Compatibility (EMC) | | | |
| EMC | ICES–Gen Issue 2 February 23, 2024 | General Requirements for Compliance of Interference-Causing Equipment | |
| EMC | ICES–001 Issue 5 July 2020 | Industrial, Scientific and Medical (ISM) Equipment | - fmax 325 GHz - No CISPR 11 Artificial d.c. network (DC-AN) |
| EMC | ICES–003 Issue 7 October 15, 2020 | Information Technology Equipment (Including Digital Apparatus) | |
| EMC | ANSI C63.4-2014 amended as per ANSI C63.4a-2017 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz - Amendment 1: Test Site Validation | |
| Radio Equipment and Systems | | | |
| TC | ANSI C63.10-2013 | American National Standard for Testing of Unlicensed Wireless Devices | |
| TC | ANSI C63.10-2020 +Cor.1-2023 | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices | |
| TC | ANSI C63.26-2015 | American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services | |

Annex to the Partial Accreditation Certificate D-PL-12140-01-03

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| TC | RSS-Gen Issue 5 - April 2018 Amendment 1 March 2019 Amendment 2, February 2021 | General Requirements for Compliance of Radio Apparatus | |
| TC | RSS-111 Issue 5 September 4, 2014 | Broadband Public Safety Equipment Operating in the Band 4940-4990 MHz | |
| TC | RSS-112 Issue 1 February 2008 | Land Mobile and Fixed Equipment Operating in the Band 1670-1675 MHz | |
| TC | RSS-119 Issue 12, May 2015 Amendment, April 1, 2022 | Land Mobile and Fixed Equipment Operating in the Frequency Range 27.41-960 MHz | |
| TC | RSS-123 Issue 4 August 2019 | Licensed Wireless Microphones | |
| TC | RSS-130 Issue 2 February 2019 | Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz | |
| TC | RSS-131 Issue 4, 16 December 2022 | Zone Enhancers | |
| TC | RSS-132 Issue 4, January 31 2023 | Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz | |
| TC | RSS-133 Issue 6 January 18, 2018 Amendment January 2018 | 2GHz Personal Communications Services | |
| TC | RSS-134 Issue 2 February 5, 2016 | 900 MHz Narrowband Personal Communication Service | |

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| TC | RSS-135 Issue 2 June 2009 | Digital Scanner Receivers | |
| TC | RSS-137 Issue 2 February 2009 | Location and Monitoring Service in the Band 902-928 MHz | |
| TC | RSS-139 Issue 4, September 29, 2022 Amendment October 2022 | Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz | |
| TC | RSS-140 Issue 1 April 2018 | Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz | |
| TC | RSS-142 Issue 5 April 2013 | Narrowband Multipoint Communication Systems in the Bands 1429.5-1432 MHz | |
| TC | RSS-170 Issue 4, September 29, 2022 | Mobile Earth Stations (MESs) and Ancillary Terrestrial Component (ATC) Equipment Operating in the Mobile-Satellite Service (MSS) Bands | |
| TC | RSS-191 Issue 3, April 2008 with Note (effective January 21, 2020) | Local Multipoint Communication Systems in the Bands 25.35-28.35 GHz; Point-to-Point and Point-to-Multipoint Broadband Communication Systems in the Bands 24.25-24.45 GHz and 25.05-25.25 GHz; and Point-to-Multipoint Broadband Communications in the Band 38.6-40.0 GHz | |
| TC | RSS-192 Issue 5, July 2023 | Flexible Use Broadband Equipment Operating in the Band 3450-3650 MHz | |
| TC | RSS-195 Issue 2 April 2014 | Wireless Communication Service (WCS) Equipment Operating in the Bands 2305-2320 MHz and 2345-2360 MHz | |
| TC | RSS-197 Issue 1 February 2010 | Wireless Broadband Access Equipment Operating in the Band 3650-3700 MHz | |

Annex to the Partial Accreditation Certificate D-PL-12140-01-03

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| TC | RSS-199 Issue 4 July 2023 | Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz | |
| TC | RSS-210 Issue 10, December 2019 Amendment April 2020 | Licence-Exempt Radio Apparatus: Category I Equipment | |
| TC | RSS-211 Issue 1 March 2015 | Level Probing Radar Equipment | |
| TC | RSS-215 Issue 2 June 2009 | Analogue Scanner Receivers | |
| TC | RSS-216 Issue 2 January 20, 2016 Amendment 1, September 2020 | Wireless Power Transfer Devices | |
| TC | RSS-220 Issue 1 March 2009 Amendment 1 July 2018 | Devices Using Ultra-Wideband (UWB) Technology | |
| TC | RSS-222 Issue 3 October 4, 2021 | White Space Devices (WSDs) | |
| TC | RSS-236 Issue 2 September 2022 | General Radio Service Equipment Operating in the 26.960 - 27.410 MHz (Citizens Band) | |
| TC | RSS-247 Issue 3 August 2023 | Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE- LAN) Devices (including DFS) | |

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| TC | RSS-248 Issue 2 December 20, 2022 | Radio Local Area Network (RLAN) Devices in the 5925-7125 MHz Band | |
| TC | RSS-251 Issue 2 July 2018 | Vehicular Radar and Airport Fixed or Mobile Radar in the 76-81 GHz Frequency Band | |
| TC | RSS-252 Issue 2 October 2023 | Intelligent Transportation Systems - Dedicated Short Range Communications (DSRC) - On-Board Unit (OBU) | |
| TC | RSS-310 Issue 5 January 2020 | Licence-Exempt Radio Apparatus: Category II Equipment | |
| Specific Absorption Rate (SAR) & Human Exposure to EM-Fields | | | |
| TC | RSS-102 (RF Exp) ^{MEAS} Issue 5 March 2015 Amendment 1, February 2021 | Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) (RF Exposure Evaluation) | |
| TC | RSS-102 (NS) ^{MEAS} Issue 5 March 2015 Amendment 1, February 2021 | Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) (Nerve Stimulation) Measuring Procedure: SPR-002 Supplementary Procedure for Assessing Compliance with RSS-102 Nerve Stimulation Exposure Limits (2016-09) | |
| TC | SPR-002 Issue 2 October 2022 | Supplementary Procedure for Assessing Compliance of Equipment Operating from 3 kHz to 10 MHz with RSS-102 | |
| TC | RSS-102 (RF Exp) Issue 6, December 15, 2023 | Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) (RF Exposure Evaluation) | |
| TC | RSS-102.NS.MEAS Issue 1 December 15, 2023 | Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102 | |

Annex to the Partial Accreditation Certificate D-PL-12140-01-03

Flexibility according to DAkkS SD 0 002_e (Accreditation with flexible scope of testing laboratories, calibration laboratories and medical laboratories) and EA-2/15 M: 2019 (EA Requirements for the Accreditation of Flexible Scopes).

Abbreviations used:

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| RSS | Radio Standards Specification |
| IEC | International Electrotechnical Commission |
| EMC | Electromagnetic Compatibility |
| TC | Telecommunication |