

# Deutsche Akkreditierungsstelle

## Annex to the Partial Accreditation Certificate D-PL-12140-01-02 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:

### **Electromagnetic Compatibility and Telecommunication (FCC Requirements)**

*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-12140-01-02**

Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	Unintentional Radiators (FCC Part 15, Subpart B)	ANSI C 63.4-2014 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  ANSI C 63.4a-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 Amendment 1: Test site Validation	Highest measurable Frequency Range is limited to 325 GHz
USA	Industrial, Scientific, and Medical Equipment (FCC Part 18) ● Consumer ISM equipment	FCC MP-5:1986-02 FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical Equipment	Highest measurable Frequency Range is limited to 325 GHz
USA	Intentional Radiators (FCC Part 15 Subpart C)	ANSI C 63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  ANSI C 63.10-2020 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  Including Corrigendum to ANSI C63.10-2020: ANSI C63.10-2020/Cor 1-2023	Highest measurable Frequency Range is limited to 325 GHz

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Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	U-NII without DFS Intentional Radiators (FCC Part 15, Subpart E) <ul style="list-style-type: none"> <li>• Unlicensed National Information Infrastructure Devices (U-NII Devices without DFS)</li> </ul>	ANSI C 63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  ANSI C 63.10-2020 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  Including Corrigendum to ANSI C63.10-2020: ANSI C63.10-2020/Cor 1-2023	Highest measurable Frequency Range is limited to 325 GHz
USA	U-NII with DFS Intentional Radiators (FCC Part 15, Subpart E) <ul style="list-style-type: none"> <li>• Unlicensed National Information Infrastructure (U-NII) Devices with Dynamic Frequency Selection (DFS)</li> </ul>	ANSI C 63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  ANSI C 63.10-2020 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  Including Corrigendum to ANSI C63.10-2020: ANSI C63.10-2020/Cor 1-2023  FCC KDB Publication 905462 D02 U-NII DFS Compliance Procedures New Rules v02 (April 8, 2016)  FCC KDB Publication 905462 D02/D03/D04/D06/D07 U-NII, DFS Test Procedures, April 25, 2022	Highest measurable Frequency Range is limited to 325 GHz
USA	UWB Intentional Radiators (FCC Part 15, Subpart F) <ul style="list-style-type: none"> <li>• Ultra-wideband Operation</li> </ul>	ANSI C 63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  ANSI C 63.10-2020 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  Including Corrigendum to ANSI C63.10-2020: ANSI C63.10-2020/Cor 1-2023	Highest measurable Frequency Range is limited to 325 GHz

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USA	BPL Intentional Radiators (FCC Part 15, Subpart G) <ul style="list-style-type: none"> <li>Access Broadband over Power Line (Access BPL)</li> </ul>	ANSI C 63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  ANSI C 63.10-2020 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  Including Corrigendum to ANSI C63.10-2020: ANSI C63.10-2020/Cor 1-2023	Highest measurable Frequency Range is limited to 325 GHz
USA	White Space Device Intentional Radiators (FCC Part 15, Subpart H) <ul style="list-style-type: none"> <li>White Space Devices</li> </ul>	ANSI C 63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  ANSI C 63.10-2020 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  Including Corrigendum to ANSI C63.10-2020: ANSI C63.10-2020/Cor 1-2023	Highest measurable Frequency Range is limited to 325 GHz
USA	Commercial Mobile Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>Part 22 (cellular)</li> <li>Part 24</li> <li>Part 25 (below 3 GHz)</li> <li>Part 27</li> </ul>	ANSI/TIA-603-E-2016 [1] or ANSI/TIA-102.CAAA-E-2016 [1] or ANSI C63.26-2015  Land Mobile FM or PM Communications Equipment Measurement and Performance Standards  in combination with KDB Publication 971168	Highest measurable Frequency Range is limited to 325 GHz
USA	General Mobile Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>Part 22 (non-cellular)</li> <li>Part 90 (below 3 GHz)</li> <li>Part 95 (below 3 GHz)</li> <li>Part 97 (below 3 GHz)</li> <li>Part 101(below 3 GHz)</li> </ul>	ANSI/TIA-603-E-2016 [1] or ANSI/TIA-102.CAAA-E-2016 [1] or ANSI C63.26-2015 Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	Highest measurable Frequency Range is limited to 325 GHz

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Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>Part 96</li> </ul>	ANSI/TIA-603-E-2016 [1] or ANSI/TIA-102.CAAA-E-2016 [1] or ANSI C63.26-2015 Land Mobile FM or PM Communications Equipment Measurement and Performance Standards in combination with KDB Publication 971168; in combination with KDB Publication 940660	Highest measurable Frequency Range is limited to 325 GHz
USA	Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>Part 80</li> <li>Part 87</li> </ul>	ANSI/TIA-603-E 2016 [1] or ANSI C63.26-2015 Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	Highest measurable Frequency Range is limited to 325 GHz
USA	Microwave and Millimeter Wave Bands Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>Part 25</li> <li>Part 30</li> <li>Part 74</li> <li>Part 90 (above 3 GHz)</li> <li>Part 95 (above 3 GHz)</li> <li>Part 97 (above 3 GHz)</li> <li>Part 101</li> </ul>	ANSI/TIA-603-E-2016 [1] or ANSI/TIA-102.CAAA-E-2016 [1] or ANSI C63.26-2015 Land Mobile FM or PM Communications Equipment Measurement and Performance Standards in combination with KDB Publication 653005	Highest measurable Frequency Range is limited to 325 GHz
USA	Broadcast Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>Part 73</li> <li>Part 74 (below 3 GHz)</li> </ul>	ANSI/TIA-603-E-2016 [1] or ANSI/TIA-102.CAAA-E-2016 [1] or ANSI C63.26-2015 Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	Highest measurable Frequency Range is limited to 325 GHz
USA	Signal Boosters (Part 20) <ul style="list-style-type: none"> <li>Wideband Consumer signal boosters</li> <li>Provider-specific signal boosters</li> <li>Industrial signal boosters</li> </ul> Signal Boosters (Section 90.219)	ANSI C63.26-2015 in combination with KDB Publication 935210 D03, D04 and D05 [2]	Highest measurable Frequency Range is limited to 325 GHz

[1] ANSI/TIA-603-D-2010 or ANSI/TIA-102.CAAA-D-2013 may continue to be used until the end of the transition period which is two years from the date of the publication of this KDB.

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[2 For Signal Boosters (Part 20) accreditation is required for Commercial Mobile Services (FCC Licensed Radio Service Equipment) and for Signal Boosters (Section 90.219) accreditation is required for General Mobile Radio Services (FCC Licensed Radio Service Equipment).

**Abbreviations used:**

ANSI	American National Standards Institute
FCC KDB	Federal Communications Commission Public Notices and Knowledge Database publications
IEEE	Institute of Electrical and Electronics Engineers
TIA	Telecommunications Industry Association